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## SABIC® PPCOMPOUND 15T1040

PP COMPOUND MINERAL FILLED REGION AMERICAS

## **DESCRIPTION**

SABIC® PPcompound 15T1040 is a 40% talc-filled polypropylene homopolymer. The materials high fill grade makes for a very high stiffness. This combined with the good thermal stabilization makes it especially suited for applications requiring a very high modulus and high thermal stability.

SABIC® PPcompound 15T1040 is a designated automotive grade.

IMDS ID: 1648799

## **TYPICAL PROPERTY VALUES**

Revision 20210715

MCHANICAL           Tensile Stress, yld, Type I, 50 mm/min         33         MPa         ASTM D638           Tensile Stress, brk, Type I, 50 mm/min         28         MPa         ASTM D638           Tensile Strain, brk, Type I, 50 mm/min         8.4         %         ASTM D638           Tensile Strain, brk, Type I, 50 mm/min         8.4         %         ASTM D638           Tensile Modulus, 50 mm/min         4240         MPa         ASTM D790           Flexural Modulus, 1.3 mm/min, 50 mm span         3750         MPa         OS 527           Tensile Stress, break, 50 mm/min         31         MPa         S05 527           Tensile Stress, break, 50 mm/min, 1A         31         MPa         S05 27           Tensile Stress, break, 50 mm/min         2.2         %         S05 27           Tensile Stress, break, 50 mm/min         510         MPa         S05 27           Tensile Stress, break, 50 mm/min         2.2         %         S05 27           Tensile Stress, break, 50 mm/min         510         MPa         S05 27           Tensile Stress, break, 50 mm/min         2.2         %         S05 27           Tensile Stress, break, 50 mm/min         30         NPa         S05 27           Tensile Stress, break, 50 mm/min         S0 5	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Stress, brk, Type I, 50 mm/min         28         MFea         ASTM D638           Tensile Strain, yld, Type I, 50 mm/min         2.9         %         ASTM D638           Tensile Strain, Drk, Type I, 50 mm/min         8.4         %         ASTM D638           Tensile Modulus, 50 mm/min         4240         MPa         ASTM D638           Flexural Modulus, 13 mm/min, 50 mm span         3750         MPa         ASTM D790           Tensile Stress, yield, 50 mm/min         33         MFea         ISO 527           Tensile Strain, yield, 50 mm/min, 1A         31         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, yield, 50 mm/min         520         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         41         %         ISO 527           Tensile Strain, yield, 50 mm/min         41         Mpa         ISO 527           Tensile Strain, yield, 50 mm/min         41         Mpa         ISO 527<	MECHANICAL			
Tensile Strain, yld. Type I, 50 mm/min         2.9         %         ASTM D638           Tensile Modulus, 50 mm/min         4240         MPa         ASTM D638           Elexaral Modulus, 50 mm/min         3750         MPa         ASTM D638           Flexural Modulus, 13 mm/min, 50 mm span         3750         MPa         ASTM D790           Tensile Stress, yield, 50 mm/min         3         MPa         ISO 527           Tensile Strain, yield, 50 mm/min, 1A         31         MPa         ISO 527           Tensile Strain, Dreak, 50 mm/min         2.1         %         ISO 527           Tensile Strain, Dreak, 50 mm/min         2.2         %         ISO 527           Tensile Strain, Dreak, 50 mm/min         520         MPa         ISO 527           Tensile Strain, Dreak, 50 mm/min         2.2         %         ISO 527           Tensile Strain, Dreak, 50 mm/min         520         MPa         ISO 527           Tensile Strain, Dreak, 50 mm/min         40         MPa         ISO 527           Hessile Strain, Dreak, 50 mm/min         40         ASTM D638         ASTM D638           Hessile Strain, Dreak, 50 mm/min         40         ASTM D638         ASTM D648           Instrumented mpact strain, 50 mm/min, 50 mm/min         41         ASTM D648	Tensile Stress, yld, Type I, 50 mm/min	33	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min         8.4         \$         ASTM D638           Tensile Modulus, 50 mm/min         4240         MPa         ASTM D638           Flexaral Modulus, 1.3 mm/min, 50 mm span         3750         MPa         ASTM D790           Tensile Stress, break, 50 mm/min         33         MPa         50 527           Tensile Stress, break, 50 mm/min, 1A         31         MPa         50 527           Tensile Strain, break, 50 mm/min         2.1         %         50 527           Tensile Strain, break, 50 mm/min         5520         MPa         50 527           Tensile Modulus, 1 mm/min         510         MPa         50 527           Hardness, Shore D         5520         MPa         50 178           Hardness, Shore D         J/m         ASTM D4812         50 178           Reval Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         25         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         1         M J/m²         ASTM D4812           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         M J/m²         ASTM D4812           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1	Tensile Stress, brk, Type I, 50 mm/min	28	MPa	ASTM D638
Tensile Modulus, 50 mm/min         4240         MPa         ASTM D638           Flexural Modulus, 1.3 mm/min, 50 mm span         3750         MPa         ASTM D790           Tensile Stress, yield, 50 mm/min         33         MPa         ISO 527           Tensile Stress, breds, 50 mm/min, 1A         31         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, break, 50 mm/min         2.2         %         ISO 527           Tensile Modulus, 1 mm/min         5520         MPa         ISO 527           Flexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         75         INTERCAM         IMPa         ASTM D4812           Ized Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         22         J/m         ASTM D4812           Ized Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D4812           Ized Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         12         J/m         ASTM D4812           Ized Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         12         I/m         ASTM D4812           Ized Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         12         I/m         ASTM D4812           Ized I	Tensile Strain, yld, Type I, 50 mm/min	2.9	%	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span         3750         MPa         ASTM D790           Tensile Stress, yield, 50 mm/min         33         MPa         ISO 527           Tensile Stress, break, 50 mm/min, 1A         31         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, break, 50 mm/min         2.2         %         ISO 527           Tensile Modulus, 1 mm/min         50         MPa         ISO 527           Flexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 1527           Hardness, Shore D         510         MPa         ISO 188           IMPACT         Jmm         ASTM D4812         ASTM D256           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         2         J/m²         ISO 189/14           Charpy Impact, notched, 30°C, 80°10°4mm, Cut         2         J/m²         ISO 179/14A           Charpy Impact, notched, 30°C, 80°10°4mm, Cut         317         °C         ASTM D648           Charpy Impact, notched, 30°C, 80°10°4mm, Cut         317<	Tensile Strain, brk, Type I, 50 mm/min	8.4	%	ASTM D638
Tensile Stress, yield, 50 mm/min 1A         33         MPa         ISO 527           Tensile Stress, break, 50 mm/min, 1A         31         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, break, 50 mm/min         2.2         %         ISO 527           Tensile Modulus, 1 mm/min         5520         MPa         ISO 527           Hexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         5520         MPa         ISO 188           MMPACT         WE         ISO 868         ISO 188           Important modulus, 2 mm/min, 64mm span         255         J/m         ASTM D4812         ISO 189           Hardness, Shore D         VB         J/m         ASTM D4812         ISO 189         ISO 189           Important modulus, 2 mm/min, 64mm span         225         J/m         ASTM D4812         ISO 189         IS	Tensile Modulus, 50 mm/min	4240	MPa	ASTM D638
Tensile Stress, break, 50 mm/min, 1A         31         MPa         ISO 527           Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, break, 50 mm/min         2.2         %         ISO 527           Tensile Modulus, 1 mm/min         5520         MPa         ISO 527           Hexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         75         W         150 868           IMPACT         W         ASTM D4812         150 868           Izod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         10         IJ/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         IJ/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         IJ/m         ASTM D256           Instrumented Impact, notched, 23°C, 80°10°4mm, Cut         1         IM/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         I/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         I/m²         ASTM D648           PhDT, 0.45 MPa, 3.2 mm         2         X         I/m²         ASTM D648           LIPL, 30.5 MPa, 3.2 mm         2 </td <td>Flexural Modulus, 1.3 mm/min, 50 mm span</td> <td>3750</td> <td>MPa</td> <td>ASTM D790</td>	Flexural Modulus, 1.3 mm/min, 50 mm span	3750	MPa	ASTM D790
Tensile Strain, yield, 50 mm/min         2.1         %         ISO 527           Tensile Strain, break, 50 mm/min         2.2         %         ISO 527           Tensile Modulus, 1 mm/min         5520         MPa         ISO 527           Flexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         75         -         ISO 868           IMPACT         J/m         ASTM D4812           Izod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D3763           Izod Impact, notched, 23°C, 63.5°10.7°4.mm, Cut         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         J/m²         ISO 180/14           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         J/m²         ISO 179/1eA           Charpy Impact, notched, 30°C, 80°10°4mm, Cut         137         °C         ASTM D648           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, 30C to 100°C, filow         10         µm/mK         ISO 11359-2 <td>Tensile Stress, yield, 50 mm/min</td> <td>33</td> <td>MPa</td> <td>ISO 527</td>	Tensile Stress, yield, 50 mm/min	33	MPa	ISO 527
Tensile Strain, break, 50 mm/min         2.2         %         ISO 527           Tensile Modulus, 1 mm/min         5520         MPa         ISO 527           Flexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         75         -         ISO 868           IMPACT         Uman Modulus, 2 mm/min, 64mm span         225         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         MJ/m²         ISO 189/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         MJ/m²         ISO 179/1eA           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         MJ/m²         ISO 179/1eA           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         MJ/m²         ISO 179/1eA           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         37         °C         ASTM D648           HDT, 0.45 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, filow         54         µm/mK         ISO 11359-2           CLTE, -30C to	Tensile Stress, break, 50 mm/min, 1A	31	MPa	ISO 527
Tensile Modulus, 1 mm/min         5520         MPa         ISO 527           Flexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         75         -         ISO 868           IMPACT         Use of Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         225         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy@peak, 23°C@2.2m/s         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         Iso 180/1A         Iso 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         I/m         Iso 179/1eA           Charpy Impact, notched, 30°C, 80°10°4mm, Cut         1         I/m         S0 179/1eA           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         I/m         S0 179/1eA           Charpy Impact, notched, 30°C, 80°10°4mm, Cut         37         °C         ASTM D648           HDT, 0.45 MPa, 3.2 mm         82         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         137         "C         ASTM D648           CLTE, -30C to 100°C, frlow         158         °C         ISO 1359-2           Vicat Softenin	Tensile Strain, yield, 50 mm/min	2.1	%	ISO 527
Flexural Modulus, 2 mm/min, 64mm span         5410         MPa         ISO 178           Hardness, Shore D         75         -         ISO 868           IMPACT         V         ISO MED 4812           Izod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         225         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         2         kJ/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         kJ/m²         ISO 178           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         kJ/m²         ISO 178           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         kJ/m²         ISO 178           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         1         C         ASTM D648           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         337         °C         ASTM D648           HDT, 0.45 MPa, 3.2 mm         32         °C         ASTM D648           LDT, 1.82 MPa, 3.2 mm         10         µm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         15 <th< td=""><td>Tensile Strain, break, 50 mm/min</td><td>2.2</td><td>%</td><td>ISO 527</td></th<>	Tensile Strain, break, 50 mm/min	2.2	%	ISO 527
Hardness, Shore D         75         SO 868           IMPACT         Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         225         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         kJ/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         kJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80°10°4mm, Cut         1         xJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80°10°4mm, Cut         1         xJ/m²         ISO 179/1eA           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, flow         158         °C         ISO 306           Uicat Softening 10N, 50°C/hr         158         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         8         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         8	Tensile Modulus, 1 mm/min	5520	MPa	ISO 527
IMPACT         Izod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         225         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J/m         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         kl/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         kl/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80°10°4mm, Cut         1         kl/m²         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         µm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         µm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         158         °C         ISO 306           HDT 0.45 MPa, 80°10°4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182 <td>Flexural Modulus, 2 mm/min, 64mm span</td> <td>5410</td> <td>MPa</td> <td>ISO 178</td>	Flexural Modulus, 2 mm/min, 64mm span	5410	MPa	ISO 178
Izod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut         225         J/m         ASTM D4812           Izod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J         ASTM D3763           Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         kJ/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         kJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80°10°4mm, Cut         1         v         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         317         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         µm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         µm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 1.8 MPa, 80°10°4mm, Cut         37         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182	Hardness, Shore D	75	-	ISO 868
Izod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut         10         J/m         ASTM D256           Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         J         ASTM D3763           Izod Impact, notched, 23°C, 80*10*4mm, Cut         1         kJ/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80*10*4mm, Cut         2         kJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80*10*4mm, Cut         1         kJ/m²         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, filow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         μm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80*10*4mm, Cut         37         °C         ISO 75-182           HDT 1.8 MPa, 80*10*4mm, Cut         88         °C         ISO 75-182           PHYSICAL	IMPACT			
Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s         1         ASTM D3763           Izod Impact, notched, 23°C, 80*10*4mm, Cut         1         kJ/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80*10*4mm, Cut         2         kJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80*10*4mm, Cut         1         kJ/m²         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         μm/mK         ISO 306           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80*10*4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80*10*4mm, Cut         88         °C         ISO 75-182	Izod Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut	225	J/m	ASTM D4812
Izod Impact, notched, 23°C, 80°10°4mm, Cut         1         kJ/m²         ISO 180/1A           Charpy Impact, notched, 23°C, 80°10°4mm, Cut         2         kJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80°10°4mm, Cut         1         kJ/m²         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         µm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         µm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80°10°4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           PHYSICAL	Izod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut	10	J/m	ASTM D256
Charpy Impact, notched, 23°C, 80*10*4mm, Cut         2         kJ/m²         ISO 179/1eA           Charpy Impact, notched, -30°C, 80*10*4mm, Cut         1         kJ/m²         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         μm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80*10*4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80*10*4mm, Cut         88         °C         ISO 75-182   PHYSICAL	Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s	1	J	ASTM D3763
Charpy Impact, notched, -30°C, 80°10°4mm, Cut         1         kJ/m²         ISO 179/1eA           THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         µm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         µm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80°10°4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           PHYSICAL	Izod Impact, notched, 23°C, 80*10*4mm, Cut	1	kJ/m²	ISO 180/1A
THERMAL           HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         μm/mK         ISO 306           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80*10*4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80*10*4mm, Cut         88         °C         ISO 75-182           PHYSICAL	Charpy Impact, notched, 23°C, 80*10*4mm, Cut	2	kJ/m²	ISO 179/1eA
HDT, 0.45 MPa, 3.2 mm         137         °C         ASTM D648           HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         μm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80°10°4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           PHYSICAL	Charpy Impact, notched, -30°C, 80*10*4mm, Cut	1	kJ/m²	ISO 179/1eA
HDT, 1.82 MPa, 3.2 mm         82         °C         ASTM D648           CLTE, -30C to 100°C, flow         54         μm/mK         ISO 11359-2           CLTE, -30C to 100°C, xflow         110         μm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80°10°4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           PHYSICAL	THERMAL			
CLTE, -30C to 100°C, flow 54 μm/mK ISO 11359-2 CLTE, -30C to 100°C, xflow 110 μm/mK ISO 11359-2 Vicat Softening 10N, 50°C/hr 158 °C ISO 306 HDT 0.45 MPa, 80*10*4mm, Cut 88 88 °C ISO 75-1&2 PHYSICAL	HDT, 0.45 MPa, 3.2 mm	137	°C	ASTM D648
CLTE, -30C to 100°C, xflow         110         µm/mK         ISO 11359-2           Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80*10*4mm, Cut         137         °C         ISO 75-1&2           HDT 1.8 MPa, 80*10*4mm, Cut         88         °C         ISO 75-1&2           PHYSICAL	HDT, 1.82 MPa, 3.2 mm	82	°C	ASTM D648
Vicat Softening 10N, 50°C/hr         158         °C         ISO 306           HDT 0.45 MPa, 80°10°4mm, Cut         137         °C         ISO 75-182           HDT 1.8 MPa, 80°10°4mm, Cut         88         °C         ISO 75-182           PHYSICAL	CLTE, -30C to 100°C, flow	54	µm/mK	ISO 11359-2
HDT 0.45 MPa, 80*10*4mm, Cut 137 °C ISO 75-1&2 HDT 1.8 MPa, 80*10*4mm, Cut 88 °C ISO 75-1&2 PHYSICAL	CLTE, -30C to 100°C, xflow	110	µm/mK	ISO 11359-2
HDT 1.8 MPa, 80°10°4mm, Cut 888 °C ISO 75-1&2 PHYSICAL	Vicat Softening 10N, 50°C/hr	158	°C	ISO 306
PHYSICAL	HDT 0.45 MPa, 80*10*4mm, Cut	137	°C	ISO 75-1&2
	HDT 1.8 MPa, 80*10*4mm, Cut	88	°C	ISO 75-1&2
Specific Gravity 1.26 - ASTM D792	PHYSICAL			
	Specific Gravity	1.26	-	ASTM D792

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.26	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	7	g/10 min	ISO 1133
INJECTION MOLDING			
Drying Temperature	80 – 100	°C	
Drying Time	2 – 4	Hrs	
Melt Temperature	210 – 270	°C	
Nozzle Temperature	210 – 270	°C	
Front - Zone 3 Temperature	210 – 270	°C	
Middle - Zone 2 Temperature	200 – 250	°C	
Rear - Zone 1 Temperature	190 – 230	°C	
Mold Temperature	15 – 60	°C	
Back Pressure	1 – 1.5	MPa	

## **DISCLAIMER**

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