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SABIC® PPCOMPOUND 55T1030

PP COMPOUND MINERAL FILLED REGION AMERICAS

DESCRIPTION

SABIC® PPcompound 55T1030 is a Polypropylene copolymer with 30% talcum. It is especially suited for applications that require an exceptional stiffness combined with a high impact resistance (even at low temperatures) like dashboard carriers and other dashboard components that are exposed to high temperatures.

SABIC® PPcompound 55T1030 is a designated automotive grade.

IMDS ID: 16160823

TYPICAL PROPERTY VALUES

Revision 20211207

RECHANICAL Frame of Series, yid, Type I, 50 mm/min 21 MPa ASTM D638 ensile Stress, brk, Type I, 50 mm/min 16 MPa ASTM D638 ensile Stress, brk, Type I, 50 mm/min 3.4 % ASTM D638 ensile Strain, brk, Type I, 50 mm/min 2.90 MPa ASTM D638 ensile Modulus, 50 mm/min 2.900 MPa ASTM D638 lexural Modulus, 50 mm/min 2.900 MPa ASTM D790 ensile Stress, yield, 50 mm/min 2.4 MPa ISO 527 ensile Stress, break, 50 mm/min 3.4 MPa ISO 527 ensile Strain, yield, 50 mm/min 3.4 MPa ISO 527 ensile Strain, preak, 50 mm/min 80 % ISO 527 ensile Strain, preak, 50 mm/min 80 % ISO 527 ensile Strain, preak, 50 mm/min 80 % ISO 527 ensile Strain, preak, 50 mm/min 80 % ISO 527 ensile Strain, preak, 50 mm/min 80 % ISO 527 ensile Strain, preak, 50 mm/min 80 % ISO				
densile Stress, yld, Type I, 50 mm/min 21 MFP ASTM D638 densile Stress, brk, Type I, 50 mm/min 16 MPa ASTM D638 densile Strain, yld, Type I, 50 mm/min 3.4 % ASTM D638 densile Strain, brk, Type I, 50 mm/min 2090 MPa ASTM D638 densile Modulus, 50 mm/min 2090 MPa ASTM D638 densile Modulus, 1.3 mm/min, 50 mm span 2300 MPa ASTM D638 densile Stress, break, 50 mm/min 24 MPa 150 527 densile Stress, break, 50 mm/min 3.4 % 150 527 densile Strain, break, 50 mm/min 3.4 % 150 527 densile Strain, break, 50 mm/min 3.4 % 150 527 densile Strain, break, 50 mm/min 80 % 150 527 densile Strain, break, 50 mm/min 80 % 150 527 densile Strain, break, 50 mm/min 80 % 150 527 densile Strain, break, 50 mm/min 80 % 150 527 densile Strain, break, 50 mm/min 80 % 150 527	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
censile Stress, brk, Type I, 50 mm/min 16 MPa ASTM D638 censile Strain, yld, Type I, 50 mm/min 3.4 % ASTM D638 censile Strain, brk, Type I, 50 mm/min 45.6 % ASTM D638 censile Modulus, 13 mm/min, 50 mm span 2000 MPa ASTM D790 censile Stress, jeid, 50 mm/min 24 MPa ISO 527 censile Stress, break, 50 mm/min 18 MPa ISO 527 censile Strain, break, 50 mm/min 3.4 % ISO 527 censile Strain, break, 50 mm/min 80 % ISO 527 censile Strain, break, 50 mm/min 2520 MPa ISO 527 censile Strain, break, 50 mm/min 80 % ISO 527 censile Strain, break, 50 mm/min 280 MPa ISO 527 censile Strain, break, 50 mm/min 80 % ISO 527 censile Strain, break, 50 mm/min 48 ISO 527 censile Strain, break, 50 mm/min 48 ISO 527 censile Strain, break, 50 mm/min 48 ISO 527 censile Stress, break, 50 mm/min<	MECHANICAL			
densile Strain, yld, Type I, 50 mm/min 3.4 % ASTM D638 densile Strain, brk, Type I, 50 mm/min 45.6 % ASTM D638 densile Strain, brk, Type I, 50 mm/min 2090 MPa ASTM D638 descrial Modulus, 1.3 mm/min, 50 mm span 2300 MPa ASTM D790 dessile Stress, yield, 50 mm/min 24 MPa ISO 527 densile Strain, yield, 50 mm/min 3.4 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 178 destrain Strain, break, 50 mm/min 80 MPa ISO 178 <td>Tensile Stress, yld, Type I, 50 mm/min</td> <td>21</td> <td>MPa</td> <td>ASTM D638</td>	Tensile Stress, yld, Type I, 50 mm/min	21	MPa	ASTM D638
deside Strain, brk, Type I, 50 mm/min 45.6 % ASTM D638 deside Modulus, 50 mm/min 2090 MPa ASTM D638 deside Modulus, 1.3 mm/min, 50 mm span 2300 MPa ASTM D790 deside Stress, yield, 50 mm/min 24 MPa ISO 527 deside Strain, yield, 50 mm/min 3.4 % ISO 527 deside Strain, yield, 50 mm/min 80 % ISO 527 deside Strain, yield, 50 mm/min 80 % ISO 527 deside Strain, yield, 50 mm/min 80 % ISO 527 deside Strain, yield, 50 mm/min 80 % ISO 527 deside Strain, yield, 50 mm/min 80 % ISO 527 deside Strain, yield, 50 mm/min 80 % ISO 527 deside Strain, pied, 60 mm/min 80 % ISO 527 deside Strain, pied, 60 mm/min 80 % ISO 527 deside Strain, pied, 60 mm/min 80 % ISO 527 deside Strain, pied, 60 mm/min 80 MPa ISO 180 deside Strain, pied	Tensile Stress, brk, Type I, 50 mm/min	16	MPa	ASTM D638
Paragraph Par	Tensile Strain, yld, Type I, 50 mm/min	3.4	%	ASTM D638
Part	Tensile Strain, brk, Type I, 50 mm/min	45.6	%	ASTM D638
densile Stress, yield, 50 mm/min 24 MPa ISO 527 densile Stress, break, 50 mm/min, 1A 18 MPa ISO 527 densile Strain, yield, 50 mm/min 3.4 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Modulus, 1 mm/min 2520 MPa ISO 527 descrial Modulus, 2 mm/min, 64mm span 2810 MPa ISO 868 MPACT Ward ISO 868 MPACT J/m ASTM D4812 ASTM D4812 cool Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut 1068 J/m ASTM D3763 denstrumented Impact Energy@peak, 23°C @2.2 m/s 18 J ASTM D3763 cool Impact, notched, 23°C, 80*10*4mm, Cut 13 kJ/m² ISO 180/1A cool Impact, notched, 30°C, 80*10*4mm, Cut 3 kJ/m² ISO 180/1A cool Impact, notched, 30°C, 80*10*4mm, Cut 3 kJ/m² ISO 180/1A cool Impact, notched, 30°C, 80*10*4mm, Cut 13 kJ/m² ISO 180/1A cool Impact, notched, 30°C, 80*10*4mm, Cut 13 kJ/m²	Tensile Modulus, 50 mm/min	2090	MPa	ASTM D638
rensile Stress, break, 50 mm/min, 1A 18 MPa ISO 527 rensile Strain, yield, 50 mm/min 3.4 % ISO 527 rensile Strain, break, 50 mm/min 80 % ISO 527 rensile Modulus, 1 mm/min 2520 MPa ISO 527 lexural Modulus, 2 mm/min, 64mm span 2810 MPa ISO 178 learnings, Shore D 68 - ISO 868 MPACT WPACT J/m ASTM D4812 cod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut 1068 J/m ASTM D256 instrumented Impact Energy @ peak, 23°C @ 2.2 m/s 18 J ASTM D3763 cod Impact, notched, 23°C, 80°10°4mm, Cut 13 kl/m² ISO 180/1A cod Impact, notched, 3°C, 80°10°4mm, Cut 3 kl/m² ISO 180/1A cod Impact, notched, 3°C, 80°10°4mm, Cut 13 kl/m² ISO 180/1A cod Impact, notched, 3°C, 80°10°4mm, Cut 13 kl/m² ISO 180/1A cod Impact, notched, 3°C, 80°10°4mm, Cut 13 kl/m² ISO 180/1A Charpy Impact, notched, 3°C, 80°10°4mm, Cut 1 </td <td>Flexural Modulus, 1.3 mm/min, 50 mm span</td> <td>2300</td> <td>MPa</td> <td>ASTM D790</td>	Flexural Modulus, 1.3 mm/min, 50 mm span	2300	MPa	ASTM D790
densile Strain, yield, 50 mm/min 3.4 % ISO 527 densile Strain, break, 50 mm/min 80 % ISO 527 densile Modulus, 1 mm/min 2520 MPa ISO 178 descrail Modulus, 2 mm/min, 64mm span 2810 MPa ISO 188 descrail Modulus, 2 mm/min, 64mm span 2810 MPa ISO 180 descrail Modulus, 2 mm/min, 64mm span 2810 MPa ISO 180 descrail Modulus, 2 mm/min, 64mm span 2810 MPa ISO 180 descrail Modulus, 2 mm/min, 64mm span 2810 MPa ISO 180 descrain Min, 64mm span 2810 MPa ISO 180 MPACT USO 868 MPA ASTM D4812 cold Impact, unotched, 23°C, 63.5°12.7°3.2mm, Cut 140 J/m ASTM D256 unstrumented Impact Energy @ peak, 23°C @ 2.2 m/s 18 J ASTM D256 unstrumented Impact Energy @ peak, 23°C @ 2.2 m/s 18 J ISO 180/14 cold Impact, notched, 23°C, 80°10°4mm, Cut 13 I/m² ISO 180/14 cold Impact, notched, 23°C, 80°10°4mm, Cut 13<	Tensile Stress, yield, 50 mm/min	24	MPa	ISO 527
Serials Strain, break, 50 mm/min 80	Tensile Stress, break, 50 mm/min, 1A	18	MPa	ISO 527
Seriale Modulus, 1 mm/min 2520 MPa ISO 527 Sexural Modulus, 2 mm/min, 64mm span 2810 MPa ISO 178 Serial Modulus, 2 mm/min, 64mm span 68 - ISO 868 MPACT Sod Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut 1068 1/m ASTM D4812 Sod Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut 140 1/m ASTM D256 Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s 18 1 ASTM D3763 Sod Impact, notched, 23°C, 80°10°4mm, Cut 13 kJ/m² ISO 180/1A Sod Impact, notched, 23°C, 80°10°4mm, Cut 3 kJ/m² ISO 180/1A Sod Impact, notched, 23°C, 80°10°4mm, Cut 13 kJ/m² ISO 180/1A Sod Impact, notched, 23°C, 80°10°4mm, Cut 13 kJ/m² ISO 179/1eA Sod Impact, notched, -30°C, 80°10°4mm, Cut 13 kJ/m² ISO 179/1eA Sod Impact, notched, -30°C, 80°10°4mm, Cut 14 Caral Market 15 Caral Market Sod Market 14 Caral Market 14 Caral Market 15 Sod Market 14 Caral Market 15 Caral Market 15 Sod Market 14 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Caral Market 15 Sod Market 15 Caral Market 15 Car	Tensile Strain, yield, 50 mm/min	3.4	%	ISO 527
Secural Modulus, 2 mm/min, 64mm span 2810 MPa ISO 178 ISO 868 ISO 869 ISO 868 IS	Tensile Strain, break, 50 mm/min	80	%	ISO 527
So	Tensile Modulus, 1 mm/min	2520	MPa	ISO 527
MPACT 200d Impact, unnotched, 23°C, 63.5°12.7°3.2mm, Cut 1068 J/m ASTM D4812 200d Impact, notched, 23°C, 63.5°12.7°3.2mm, Cut 140 J/m ASTM D256 200d Impact, notched, 23°C, 80°10°4mm, Cut 18 J ASTM D3763 200d Impact, notched, 23°C, 80°10°4mm, Cut 13 kl/m² ISO 180/1A 200d Impact, notched, °30°C, 80°10°4mm, Cut 3 kl/m² ISO 180/1A 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 180/1A 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 179/1eA 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 179/1eA 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 179/1eA 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 179/1eA 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 179/1eA 200d Impact, notched, °30°C, 80°10°4mm, Cut 13 kl/m² ISO 179/1eA 200d Impact, notched, °30°C, 80°10°4mm, Cut 14 °C ASTM D648 200d Impact, notched, °30°C, 80°	Flexural Modulus, 2 mm/min, 64mm span	2810	MPa	ISO 178
zod Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut 1068 J/m ASTM D4812 zod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut 140 J/m ASTM D256 instrumented Impact Energy @ peak, 23°C @ 2.2 m/s 18 J ASTM D3763 zod Impact, notched, 23°C, 80*10*4mm, Cut 13 kJ/m² ISO 180/1A zod Impact, notched, °C, 80*10*4mm, Cut 3 kJ/m² ISO 180/1A zod Impact, notched, -30°C, 80*10*4mm, Cut 13 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 13 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² ISO 179/1eA zharpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² C ASTM D648 zharpy Impact, notched, -	Hardness, Shore D	68	-	ISO 868
200 Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut 140 140 140 140 140 150 180	IMPACT			
STATE STAT	Izod Impact, unnotched, 23°C, 63.5*12.7*3.2mm, Cut	1068	J/m	ASTM D4812
SO 180/1A SO 1	Izod Impact, notched, 23°C, 63.5*12.7*3.2mm, Cut	140	J/m	ASTM D256
SO 180/1A SO 179/1eA SO 179	Instrumented Impact Energy @ peak, 23°C @ 2.2 m/s	18	J	ASTM D3763
SO 180/1A SO 179/1eA	Izod Impact, notched, 23°C, 80*10*4mm, Cut	13	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut 13 kJ/m² ISO 179/1eA Charpy Impact, notched, -30°C, 80*10*4mm, Cut 1 kJ/m² ISO 179/1eA HERMAL HDT, 0.45 MPa, 3.2 mm 114 °C ASTM D648 ADT, 1.82 MPa, 3.2 mm 60 °C ASTM D648 LTE, -30C to 100°C, flow 63 μm/mK ISO 11359-2 LTE, -30C to 100°C, xflow 94 μm/mK ISO 11359-2 LTE, -30C to 100°C, xflow 94 μm/mK ISO 306 Vicat Softening 10N, 50°C/hr 150 °C ISO 306 MDT 0.45 MPa, 80*10*4mm, Cut 120 °C ISO 75-182	Izod Impact, notched, 0°C, 80*10*4mm, Cut	6	kJ/m²	ISO 180/1A
tharpy Impact, notched, -30°C, 80°10°4mm, Cut 1	Izod Impact, notched, -30°C, 80*10*4mm, Cut	3	kJ/m²	ISO 180/1A
HERMAL ADT, 0.45 MPa, 3.2 mm 114 °C ASTM D648 ADT, 1.82 MPa, 3.2 mm 60 °C ASTM D648 LTE, -30C to 100°C, flow 63 μm/mK ISO 11359-2 LTE, -30C to 100°C, xflow 94 μm/mK ISO 11359-2 (icat Softening 10N, 50°C/hr 150 °C ISO 306 ISO 75-18.2	Charpy Impact, notched, 23°C, 80*10*4mm, Cut	13	kJ/m²	ISO 179/1eA
IDT, 0.45 MPa, 3.2 mm 114 °C ASTM D648 IDT, 1.82 MPa, 3.2 mm 60 °C ASTM D648 CLTE, -30C to 100°C, flow 63 μm/mK ISO 11359-2 CLTE, -30C to 100°C, xflow 94 μm/mK ISO 11359-2 Vicat Softening 10N, 50°C/hr 150 °C ISO 306 4DT 0.45 MPa, 80*10*4mm, Cut 120 °C ISO 75-182	Charpy Impact, notched, -30°C, 80*10*4mm, Cut	1	kJ/m²	ISO 179/1eA
ADT, 1.82 MPa, 3.2 mm 60 °C ASTM D648 LTE, -30C to 100°C, flow 63 μm/mK ISO 11359-2 LTE, -30C to 100°C, xflow 94 μm/mK ISO 11359-2 Vicat Softening 10N, 50°C/hr 150 °C ISO 306 ADT 0.45 MPa, 80*10*4mm, Cut 120 °C ISO 75-182	THERMAL			
1 SO 11359-2 1 LTE, -30C to 100°C, flow 63 μm/mK ISO 11359-2 1 μm/mK ISO 11359-2 1 μm/mK ISO 11359-2 1 ISO 306 1 ISO 306 1 ISO 75-18.2	HDT, 0.45 MPa, 3.2 mm	114	°C	ASTM D648
CLTE, -30C to 100°C, xflow 94 μm/mK ISO 11359-2 (icat Softening 10N, 50°C/hr 150 °C ISO 306 ADT 0.45 MPa, 80*10*4mm, Cut 120 °C ISO 75-1&2	HDT, 1.82 MPa, 3.2 mm	60	°C	ASTM D648
/icat Softening 10N, 50°C/hr 150 °C ISO 306 HDT 0.45 MPa, 80*10*4mm, Cut 120 °C ISO 75-1&2	CLTE, -30C to 100°C, flow	63	µm/mK	ISO 11359-2
HDT 0.45 MPa, 80*10*4mm, Cut 120 °C ISO 75-1&2	CLTE, -30C to 100°C, xflow	94	µm/mK	ISO 11359-2
	Vicat Softening 10N, 50°C/hr	150	°C	ISO 306
HDT 1.8 MPa, 80*10*4mm, Cut 64 °C ISO 75-1&2	HDT 0.45 MPa, 80*10*4mm, Cut	120	°C	ISO 75-1&2
	HDT 1.8 MPa, 80*10*4mm, Cut	64	°C	ISO 75-1&2

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Specific Gravity	1.14	-	ASTM D792
Density	1.13	g/cm³	ISO 1183
Melt Flow Rate, 230°C/2.16 kg	4	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	

STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

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