



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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
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, yld, Type I, 50 mm/min	2.9	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	8.4	%	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, 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
Flexural Modulus, 2 mm/min, 64mm span	5410	MPa	ISO 178
Hardness, Shore D	75	-	ISO 868
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	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 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			
Specific Gravity	1.26	-	ASTM D792





PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Density	1.26	g/cm ³	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	

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