

SABIC Innovative Plastics SABIC PPCOMPOUND 55T1040 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound 55T1040 is a general purpose, talc filled, heat stabilized copolymer polypropylene compound. This compound exhibits very high impact and high rigidity, and is suitable for injection molding applications. The IMDS ID is 278629571

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-55T1040-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.0 MPa	2030 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	20.0 MPa	2900 psi	50 mm/min; ISO 527
Elongation at Break	10.8 %	10.8 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	2.45 GPa	355 ksi	1 mm/min; ISO 527
Flexural Modulus	3.27 GPa	474 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	2.00 kJ/m ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.200 J/cm ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	10.0 J @Temperature 23.0 °C	7.38 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 Â°C	158 Â°F	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	124 Â°C	255 Â°F	80*10*4mm, Cut; ISO 75-1&2
Vicat Softening Point	142 Â°C	288 Â°F	10N, 50Â°C/hr; ISO 306

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