

SABIC Innovative Plastics SABIC PPCOMPOUND 9712 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound 9712 is a mineral filled, impact modified polypropylene TPO. This material combines high impact resistance, scratch resistance, and heat stability with interior automotive UV stability. This material can exhibit ductility at temperatures as low as -30 degrees C. The IMDS is 164207488.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-9712-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527
Elongation at Break	65 %	65 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	1.86 GPa	270 ksi	1 mm/min; ISO 527
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	3.40 J/cm ²	16.2 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	19.0 J @Temperature 23.0 °C	14.0 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Instrumented Impact Energy @ peak, - 30Â°C @ 6.6 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	58.0 Âµm/m-Â°C @Temperature -30.0 - 100 Â°C	32.2 Âµin/in-Â°F @Temperature -22.0 - 212 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	150 Âµm/m-Â°C @Temperature -30.0 - 100 Â°C	83.3 Âµin/in-Â°F @Temperature -22.0 - 212 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	58.0 Â°C	136 Â°F	80*10*4mm, Cut; ISO 75-1&2
Vicat Softening Point	136 Â°C	277 Â°F	10N, 50Â°C/hr; ISO 306

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