

SABIC Innovative Plastics SABIC PPCOMPOUND G3220A PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound G3220A is a general purpose, 20% glass filled, chemically coupled, heat stabilized homopolymer polypropylene compound. The IMDS is 209767996.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-G3220A-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Melt Flow	17 g/10 min @Load 2.16 kg, Temperature 230 °C	17 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	50 mm/min, 1A; ISO 527
	87.0 MPa	12600 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	3.3 %	3.3 %	Type I, 50 mm/min; ASTM D638
	3.3 %	3.3 %	50 mm/min; ISO 527
Tensile Modulus	4.90 GPa	711 ksi	1 mm/min; ISO 527
	5.38 GPa	780 ksi	50 mm/min; ASTM D638
Flexural Modulus	4.21 GPa	611 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.50 GPa	653 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	6.01 J/cm	11.3 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	8.00 kJ/m ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature -30.0 Â°C	English @ Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 179/1eA Comments
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Âµm/m-Â°C @Temperature -30.0 - 100 Â°C	8.33 Âµin/in-Â°F @Temperature -22.0 - 212 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	163 Âµm/m-Â°C @Temperature -30.0 - 100 Â°C	90.6 Âµin/in-Â°F @Temperature -22.0 - 212 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	161 Â°C	322 Â°F	80*10*4mm, Cut; ISO 75-1&2
	160 Â°C @Thickness 3.20 mm	320 Â°F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	150 Â°C	302 Â°F	80*10*4mm, Cut; ISO 75-1&2
	151 Â°C @Thickness 3.20 mm	304 Â°F @Thickness 0.126 in	ASTM D648
Vicat Softening Point	163 Â°C	325 Â°F	10N, 50Â°C/hr; ISO 306

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