

SABIC Innovative Plastics SABIC PPCOMPOUND G3240U PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC[®] PPcompound G3240U is a general purpose, 40% glass filled, chemically coupled, heat stabilized and UV stabilized homopolymer polypropylene compound. The IMDS ID is 209768078.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-G3240U-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	48 hrs @ 23 [°] C, flow; SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	48 hrs @ 23 [°] C, xflow; SABIC Method
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 230 [°] C	11 g/10 min @Load 4.76 lb, Temperature 446 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	50 mm/min, 1A; ISO 527
	120 MPa	17400 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 50 mm/min; ASTM D638
	2.9 %	2.9 %	50 mm/min; ISO 527
Tensile Modulus	7.61 GPa	1100 ksi	50 mm/min; ASTM D638
	8.90 GPa	1290 ksi	1 mm/min; ISO 527
Flexural Modulus	7.80 GPa	1130 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.90 GPa	1290 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.970 J/cm	1.82 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	6.10 J/cm	11.4 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	10.0 kJ/m ² @Temperature -30.0 [°] C	4.76 ft-lb/in ² @Temperature -22.0 [°] F	80*10*4mm, Cut; ISO 180/1A

Mechanical Properties	Metric/cm ²	English/lb/in ²	Comments
	1.30 J/cm ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 179/1eA
Gardner Impact	0.300 J	0.221 ft-lb	ASTM D5420
Dart Drop, Total Energy	4.00 J @Temperature 23.0 °C	2.95 ft-lb @Temperature 73.4 °F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 Åµm/m-Å°C @Temperature -30.0 - 100 Å°C	8.89 Åµin/in-Å°F @Temperature -22.0 - 212 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	155 Åµm/m-Å°C @Temperature -30.0 - 100 Å°C	86.1 Åµin/in-Å°F @Temperature -22.0 - 212 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	161 Å°C	322 Å°F	80*10*4mm, Cut; ISO 75-1&2
	161 Å°C @Thickness 3.20 mm	322 Å°F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	153 Å°C	307 Å°F	80*10*4mm, Cut; ISO 75-1&2
	153 Å°C @Thickness 3.20 mm	307 Å°F @Thickness 0.126 in	ASTM D648
Vicat Softening Point	164 Å°C	327 Å°F	10N, 50Å°C/hr; ISO 306

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