

SABIC Innovative Plastics SABIC PPCOMPOUND G3230A PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound G3230A is a general purpose, 30% glass filled, chemically coupled, heat stabilized homopolymer polypropylene compound. The IMDS ID is 109612410

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-G3230A-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.12 g/cc	0.0405 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	0.0070 cm/cm	0.0070 in/in	48 hrs @ 23°C, xflow; SABIC Method
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	83.0 MPa	12000 psi	Type I, 50 mm/min; ASTM D638
	85.0 MPa	12300 psi	50 mm/min, 1A; ISO 527
Elongation at Break	2.7 %	2.7 %	Type I, 50 mm/min; ASTM D638
	3.3 %	3.3 %	50 mm/min; ISO 527
Tensile Modulus	6.50 GPa	943 ksi	1 mm/min; ISO 527
	6.58 GPa	954 ksi	50 mm/min; ASTM D638
Flexural Modulus	5.12 GPa	743 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.60 GPa	957 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	5.68 J/cm	10.6 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

Charpy Impact, Notched Mechanical Properties	1.00 J/cm ² Metric	4.76 ft-lb/in ² English	80*10*4mm, Cut; ISO 179/1eA Comments
	1.10 J/cm ²	5.23 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Gardner Impact	0.500 J	0.369 ft-lb	ASTM D5420
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	5.00 µm/m-°C	2.78 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
CTE, linear, Transverse to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	80*10*4mm, Cut; ISO 75-1&2
	159 °C	318 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °F	80*10*4mm, Cut; ISO 75-1&2
	150 °C	302 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Vicat Softening Point	164 °C	327 °F	10N, 50°C/hr; ISO 306

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China