

SABIC Innovative Plastics SABIC PPCOMPOUND 19T1030 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC® PPcompound 19T1030 is a general purpose, talc filled, heat stabilized homopolymer polypropylene compound. This compound exhibits high flow and is suitable for injection molding applications. The IMDS ID is 278628419.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-19T1030-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0075 cm/cm	0.0075 in/in	48 hrs @ 23°C, flow; SABIC Method
Linear Mold Shrinkage, Transverse	0.0125 cm/cm	0.0125 in/in	48 hrs @ 23°C, xflow; SABIC Method
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	34.0 MPa	4930 psi	50 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	4.75 GPa	689 ksi	1 mm/min; ISO 527
Flexural Modulus	4.10 GPa	595 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched (ISO)	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	1.00 kJ/m ² @Temperature -30.0 °C	0.476 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	0.100 J/cm ²	0.476 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.100 J/cm ² @Temperature -30.0 °C	0.476 ft-lb/in ² @Temperature -22.0 °F	80*10*4mm, Cut; ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties	58.0 µm/m-°C	32.2 µin/in-°F	Comments
<i>CTE, linear, Parallel to Flow</i>	Metric	English	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
CTE, linear, Transverse to Flow	125 µm/m-°C	69.4 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	131 °C	268 °F	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	80*10*4mm, Cut; ISO 75-1&2
Vicat Softening Point	157 °C	315 °F	10N, 50°C/hr; ISO 306

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