

SABIC Innovative Plastics SABIC PPCOMPOUND 19T1020 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC[®] PPcompound 19T1020 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 163255030.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-19T1020-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 230 °C	18 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	ISO 868
Tensile Strength at Break	29.0 MPa	4210 psi	Type I, 50 mm/min; ASTM D638
	32.0 MPa	4640 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	36.0 MPa	5220 psi	50 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	10.6 %	10.6 %	50 mm/min; ISO 527
	20.5 %	20.5 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.97 GPa	431 ksi	50 mm/min; ASTM D638
	3.20 GPa	464 ksi	1 mm/min; ISO 527
Flexural Modulus	2.49 GPa	361 ksi	1.3 mm/min, 50 mm span; ASTM D790
	3.17 GPa	460 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	4.10 J/cm	7.68 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812

Mechanical Properties	Metric	English	Comments
Impact, Notched (ISO)	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.100 J/cm ²	0.476 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	58.0 Âµm/m-Â°C	32.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -30.0 - 100 Â°C	@Temperature -22.0 - 212 Â°F	
CTE, linear, Transverse to Flow	115 Âµm/m-Â°C	63.9 Âµin/in-Â°F	ISO 11359-2
	@Temperature -30.0 - 100 Â°C	@Temperature -22.0 - 212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	128 Â°C	262 Â°F	80*10*4mm, Cut; ISO 75-1&2
	129 Â°C	264 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.0 Â°C	163 Â°F	80*10*4mm, Cut; ISO 75-1&2
	73.0 Â°C	163 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
Vicat Softening Point	157 Â°C	315 Â°F	10N, 50Â°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