

## SABIC Innovative Plastics SABIC PPCOMPOUND 37T1020 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABIC<sup>®</sup> PPcompound 37T1020 is a general purpose, talc filled, heat stabilized copolymer polypropylene compound. This compound exhibits high impact and high flow, and is suitable for injection molding applications. The IMDS ID is 16161338.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-37T1020-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-37T1020-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 <sup>3</sup>	ISO 1183
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 °C	13 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	ISO 868
Tensile Strength at Break	17.0 MPa	2470 psi	Type I, 50 mm/min; ASTM D638
	25.0 MPa	3630 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	25.0 MPa	3630 psi	Type I, 50 mm/min; ASTM D638
	28.0 MPa	4060 psi	50 mm/min; ISO 527
Elongation at Break	32.8 %	32.8 %	Type I, 50 mm/min; ASTM D638
	45 %	45 %	50 mm/min; ISO 527
Elongation at Yield	3.5 %	3.5 %	50 mm/min; ISO 527
	3.7 %	3.7 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.45 GPa	355 ksi	50 mm/min; ASTM D638
	2.75 GPa	399 ksi	1 mm/min; ISO 527
Flexural Modulus	2.35 GPa	341 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.83 GPa	410 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.510 J/cm	0.955 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	8.50 J/cm	15.9 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812

Mechanical Properties	Metric	English	Comments
Impact, Notched (ISO)	1.00 kJ/m <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	0.100 J/cm <sup>2</sup>	0.476 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °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 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.0 µm/m-°C	36.7 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
CTE, linear, Transverse to Flow	128 µm/m-°C	71.1 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	80*10*4mm, Cut; ISO 75-1&2
	116 °C	241 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	69.0 °C	156 °F	80*10*4mm, Cut; ISO 75-1&2
	60.0 °C	140 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
Vicat Softening Point	145 °C	293 °F	10N, 50°C/hr; ISO 306

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