

## SABIC Innovative Plastics SABIC PPCOMPOUND 15T1040 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABIC® PPcompound 15T1040 is a general purpose, talc filled, heat stabilized homopolymer polypropylene compound, suitable for injection molding applications. The IMDS ID is 16487994

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-15T1040-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-15T1040-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	ISO 1183
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ISO 868
Tensile Strength at Break	28.0 MPa	4060 psi	Type I, 50 mm/min; ASTM D638
	31.0 MPa	4500 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	33.0 MPa	4790 psi	Type I, 50 mm/min; ASTM D638
	33.0 MPa	4790 psi	50 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	50 mm/min; ISO 527
	8.4 %	8.4 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	2.1 %	2.1 %	50 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	4.24 GPa	615 ksi	50 mm/min; ASTM D638
	5.52 GPa	801 ksi	1 mm/min; ISO 527
Flexural Modulus	3.75 GPa	544 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.41 GPa	785 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.100 J/cm	0.187 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	2.25 J/cm	4.22 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	80*10*4mm, Cut; ISO 179/1eA
	0.100 J/cm <sup>2</sup> @Temperature -30.0 °C	0.476 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	1.00 J @Temperature 23.0 °C	0.738 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	54.0 µm/m-°C	30.0 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	80*10*4mm, Cut; ISO 75-1&2
	137 °C @Thickness 3.20 mm	279 °F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	80*10*4mm, Cut; ISO 75-1&2
	82.0 °C @Thickness 3.20 mm	180 °F @Thickness 0.126 in	ASTM D648
Vicat Softening Point	158 °C	316 °F	10N, 50°C/hr; ISO 306

## Contact Songhan Plastic Technology Co.,Ltd.

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