

## SABIC Innovative Plastics SABIC PPCOMPOUND 19T1040 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SABIC<sup>®</sup> PPcompound 19T1040 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 16488039.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-19T1040-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-19T1040-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in <sup>3</sup>	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	75	75	ISO 868
Tensile Strength at Break	24.0 MPa	3480 psi	50 mm/min, 1A; ISO 527
	28.0 MPa	4060 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	30.0 MPa	4350 psi	50 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	6.7 %	6.7 %	Type I, 50 mm/min; ASTM D638
	11 %	11 %	50 mm/min; ISO 527
Elongation at Yield	2.3 %	2.3 %	50 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	3.99 GPa	579 ksi	50 mm/min; ASTM D638
	5.33 GPa	773 ksi	1 mm/min; ISO 527
Flexural Modulus	3.60 GPa	522 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.17 GPa	750 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.0300 J/cm	0.0562 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	2.02 J/cm	3.78 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812

Mechanical Properties	Metric	English	Comments
Charpy 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 0.000 Â°C	@Temperature 32.0 Â°F	
	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 Â°C	@Temperature -22.0 Â°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 Â°C	@Temperature -22.0 Â°F	
Dart Drop, Total Energy	4.00 J	2.95 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	48.0 Âµm/m-Â°C	26.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -30.0 - 100 Â°C	@Temperature -22.0 - 212 Â°F	
CTE, linear, Transverse to Flow	101 Âµm/m-Â°C	56.1 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)	130 Â°C	266 Â°F	80*10*4mm, Cut; ISO 75-1&2
	134 Â°C	273 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C	192 Â°F	80*10*4mm, Cut; ISO 75-1&2
	78.0 Â°C	172 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
Vicat Softening Point	150 Â°C	302 Â°F	10N, 50Â°C/hr; ISO 306

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