

SABIC® 19T1040

SABIC® PPcompound 19T1040 is a 40% talc-filled polypropylene homopolymer. The material's high fill grade makes for a very high stiffness. This combined with the high flow and good thermal stabilization makes it especially suited for complex injection molded applications requiring a very high modulus and high thermal stability. SABIC® PPcompound 19T1040 is a designated automotive grade. IMDS ID: 16488039
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Injection molded sample ISO527-1A; ISO 1183
Filler Content	40 %	40 %	SABIC method
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	Injection molded plaque 65x65x3.2mm; SABIC method

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
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Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa	3480 psi	ISO 527/1A
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527/1A
Elongation at Break	11 %	11 %	ISO 527/1A
Tensile Modulus	3.60 GPa	522 ksi	ISO 527/1A
Flexural Modulus	3.60 GPa	522 ksi	ISO 178/1A
Izod Impact, Notched (ISO)	2.80 kJ/m ²	1.33 ft-lb/in ²	N.B.: No Break; ISO 180/1A

	1.50 kJ/m ² @Temperature -20.0 °C	0.714 ft-lb/in ² @Temperature -4.00 °F	N.B.: No Break; ISO 180/1A
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	1.60 kJ/m ² @Temperature 0.000 °C	0.761 ft-lb/in ² @Temperature 32.0 °F	N.B.: No Break; ISO 180/1A
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Thermal Properties	Metric	English	Comments
CTE, linear	45.0 µm/m-°C @Temperature -30.0 - 30.0 °C	25.0 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
	68.0 µm/m-°C @Temperature -30.0 - 100 °C	37.8 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2
	90.0 µm/m-°C @Temperature 23.0 - 80.0 °C	50.0 µin/in-°F @Temperature 73.4 - 176 °F	ASTM D696

Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	ISO 75
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