

SABIC® 15T1030

SABIC® PPcompound 15T1030 is a 30% talc-filled polypropylene homopolymer. Its high modulus and good thermal stabilization makes it suited for applications under the bonnet such as heating, ventilation and air conditioning housings. SABIC® PPcompound 15T1030 is a designated automotive grade. IMDS ID: 439230598

Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	Injection molded sample ISO527-1A; ISO 1183
Filler Content	30 %	30 %	SABIC method
Linear Mold Shrinkage	0.0105 cm/cm	0.0105 in/in	Injection molded plaque 65x65x3.2mm; SABIC method
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 230 °C	6.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527/1A
Tensile Strength, Yield	32.5 MPa	4710 psi	ISO 527/1A
Elongation at Break	15 %	15 %	ISO 527/1A
Tensile Modulus	3.20 GPa	464 ksi	ISO 527/1A
Flexural Modulus	3.50 GPa	508 ksi	ISO 178/1A
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	N.B.: No Break; ISO 180/1A
	2.00 kJ/m ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	N.B.: No Break; ISO 180/1A
	2.50 kJ/m ² @Temperature 0.000 °C	1.19 ft-lb/in ² @Temperature 32.0 °F	N.B.: No Break; ISO 180/1A
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature -30.0 - 30.0 °C	27.8 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)	125 °C	257 °F	ISO 75
Vicat Softening Point	150 °C	302 °F	at 10 N (VST/A); ISO 306/A