

SABIC® 55T1030

SABIC® PPcompound 55T1030 is a Polypropylene copolymer with 30% talcum. It is especially suited for applications that require an exceptional stiffness combined with a high impact resistance (even at low temperatures) like dashboard carriers and other dashboard components that are exposed to high temperatures. SABIC® PPcompound 55T1030 is a designated automotive grade.

IMDS ID: 16160823

Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Injection molded sample ISO527-1A; ISO 1183
Filler Content	30 %	30 %	SABIC method
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Injection molded plaque 65x65x3.2mm; SABIC method

Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
	20 g/10 min @Load 5.00 kg, Temperature 230 °C	20 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	ISO 527/1A
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527/1A
Elongation at Break	80 %	80 %	ISO 527/1A
Tensile Modulus	2.20 GPa	319 ksi	ISO 527/1A
Flexural Modulus	2.30 GPa	334 ksi	ISO 178/1A
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	N.B.: No Break; ISO 180/1A
	3.50 kJ/m ² @Temperature -20.0 °C	1.67 ft-lb/in ² @Temperature -4.00 °F	N.B.: No Break; ISO 180/1A
	6.00 kJ/m ² @Temperature 0.000 °C	2.86 ft-lb/in ² @Temperature 32.0 °F	N.B.: No Break; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C @Temperature -30.0 - 30.0 °C	33.3 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
	65.0 µm/m-°C @Temperature -30.0 - 100 °C	36.1 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2
	70.0 µm/m-°C @Temperature 23.0 - 80.0 °C	38.9 µin/in-°F @Temperature 73.4 - 176 °F	ASTM D696

Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75
---	--------	--------	--------