

SABIC Innovative Plastics SABIC PPCOMPOUND 7727 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC[®] PPcompound 7727 is a mineral filled, impact modified polypropylene TPO. This material combines impact resistance, heat stability, and is used in injection molded applications. The IMDS ID is 209708556.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-7727-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Density	0.990 g/cc	0.0358 lb/in ³	ISO 1183
Melt Flow	23 g/10 min @Load 2.16 kg, Temperature 230 °C	23 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	25.0 MPa	3630 psi	50 mm/min; ISO 527
Elongation at Break	26.7 %	26.7 %	50 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	50 mm/min; ISO 527
Tensile Modulus	1.96 GPa	284 ksi	1 mm/min; ISO 527
Flexural Modulus	2.05 GPa	297 ksi	2 mm/min, 64mm span; ISO 178
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	21.0 J @Temperature 23.0 °C	15.5 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	56.0 µm/m-°C @Temperature -30.0 - 100 °C	31.1 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2
CTE, linear, Transverse to Flow	116 µm/m-°C @Temperature -30.0 - 100 °C	64.4 µin/in-°F @Temperature -22.0 - 212 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	114 °C	237 °F	80*10*4mm, Cut; ISO 75-1&2
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	80*10*4mm, Cut; ISO 75-1&2

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