

SABIC Innovative Plastics SABIC PPCOMPOUND 7985 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABIC[®] PPcompound 7985 is a mineral filled, impact modified polypropylene TPO. This material combines scratch resistance and heat stability with interior automotive UV stability. The IMDS is 209747565.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-7985-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Density	1.02 g/cc	0.0368 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	48 hrs @ 23 [°] C, flow; SABIC Method
	0.010 cm/cm	0.010 in/in	1 hr @ 80 [°] C, flow; SABIC Method
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	48 hrs @ 23 [°] C, xflow; SABIC Method
	0.014 cm/cm	0.014 in/in	1 hr @ 80 [°] C, xflow; SABIC Method
Melt Flow	21 g/10 min @Load 2.16 kg, Temperature 230 [°] C	21 g/10 min @Load 4.76 lb, Temperature 446 [°] F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ISO 868
Tensile Strength at Break	20.0 MPa	2900 psi	Type I, 50 mm/min; ASTM D638
	20.0 MPa	2900 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	Type I, 50 mm/min; ASTM D638
	27.0 MPa	3920 psi	50 mm/min; ISO 527
Elongation at Break	14 %	14 %	50 mm/min; ISO 527
	22 %	22 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	2.19 GPa	318 ksi	1 mm/min; ISO 527
	2.78 GPa	403 ksi	50 mm/min; ASTM D638

Flexural Modulus Mechanical Properties	1.94 GPa Metric	281 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	2.22 GPa	322 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	10.8 J/cm	20.2 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	2.00 kJ/m ² @Temperature 0.000 Â°C	0.952 ft-lb/in ² @Temperature 32.0 Â°F	80*10*4mm, Cut; ISO 180/1A
	2.00 kJ/m ² @Temperature -30.0 Â°C	0.952 ft-lb/in ² @Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	0.200 J/cm ² @Temperature 0.000 Â°C	0.952 ft-lb/in ² @Temperature 32.0 Â°F	80*10*4mm, Cut; ISO 179/1eA
	0.200 J/cm ² @Temperature -30.0 Â°C	0.952 ft-lb/in ² @Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	2.00 J @Temperature -30.0 Â°C	1.48 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Energy @ peak, -30Â°C @ 6.6 m/s; ASTM D3763
	7.00 J @Temperature 0.000 Â°C	5.16 ft-lb @Temperature 32.0 Â°F	Instrumented Impact Energy @ peak, @ 6.6 m/s; ASTM D3763
	22.0 J @Temperature 23.0 Â°C	16.2 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 100 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 212 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	18.0 Âµm/m-Â°C @Temperature -30.0 - 100 Â°C	10.0 Âµin/in-Â°F @Temperature -22.0 - 212 Â°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (67 psi)	108 °C @Thickness 3.20 mm	226 °F @Thickness 0.126 in	80*10*4mm, Cut; ISO 75-1&2 ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	61.0 °C @Thickness 3.20 mm	142 °F @Thickness 0.126 in	80*10*4mm, Cut; ISO 75-1&2 ASTM D648
Vicat Softening Point	144 °C	291 °F	10N, 50°C/hr; ISO 306

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