

SABIC Innovative Plastics SABIC PPCOMPOUND 7450 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABICÂ® PPcompound 7450 is a mineral filled, impact modified polypropylene TPO. This material can exhibit high impact resistance and good paintability in automotive exterior applications. The IMDS is 87784390.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-7450-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	ASTM D792
Density	0.970 g/cc	0.0350 lb/inÂ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0069 cm/cm	0.0069 in/in	48 hrs @ 23Â°C, flow; SABIC Method
	0.0074 cm/cm	0.0074 in/in	1 hr @ 80Â°C, flow; SABIC Method
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	48 hrs @ 23Â°C, xflow; SABIC Method
	0.0115 cm/cm	0.0115 in/in	1 hr @ 80Â°C, xflow; SABIC Method
Melt Flow	21 g/10 min	21 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 Â°C	@Load 4.76 lb, Temperature 446 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	Type I, 50 mm/min; ASTM D638
	13.0 MPa	1890 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	15.0 MPa	2180 psi	Type I, 50 mm/min; ASTM D638
	18.0 MPa	2610 psi	50 mm/min; ISO 527
Elongation at Break	150 %	150 %	50 mm/min; ISO 527
	300 %	300 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.1 %	4.1 %	50 mm/min; ISO 527
	9.0 %	9.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.12 GPa	162 ksi	50 mm/min; ASTM D638
	1.36 GPa	197 ksi	1 mm/min; ISO 527

Flexural Modulus Mechanical Properties	1.10 GPa Metric	160 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	1.40 GPa	203 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	4.47 J/cm	8.37 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	9.82 J/cm	18.4 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D4812
Izod Impact, Notched (ISO)	NB	NB	80*10*4mm, Cut; ISO 180/1A
	5.00 kJ/mÂ² @Temperature -30.0 Â°C	2.38 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 180/1A
	NB @Temperature 0.000 Â°C	NB @Temperature 32.0 Â°F	80*10*4mm, Cut; ISO 180/1A
Charpy Impact, Notched	NB	NB	80*10*4mm, Cut; ISO 179/1eA
	0.400 J/cmÂ² @Temperature -30.0 Â°C	1.90 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4mm, Cut; ISO 179/1eA
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	20.0 J @Temperature -30.0 Â°C	14.8 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Energy @ peak, - 30Â°C @ 2.2 m/s; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 Â°C	194 Â°F	80*10*4mm, Cut; ISO 75-1&2
	79.0 Â°C @Thickness 3.20 mm	174 Â°F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	57.0 Â°C	135 Â°F	80*10*4mm, Cut; ISO 75-1&2
	49.0 Â°C @Thickness 3.20 mm	120 Â°F @Thickness 0.126 in	ASTM D648
Vicat Softening Point	120 Â°C	248 Â°F	10N, 50Â°C/hr; ISO 306

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China