

SABIC Innovative Plastics SABIC PPCOMPOUND 7705 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

SABICÂ® PPcompound 7705 is a mineral filled, impact modified polypropylene TPO. This material combines impact resistance, scratch resistance, and heat stability with interior automotive UV stability. The IMDS is 16161010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-SABIC-PPCOMPOUND-7705-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 230 Â°C	22 g/10 min @Load 4.76 lb, Temperature 446 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ISO 868
Tensile Strength at Break	16.0 MPa	2320 psi	Type I, 50 mm/min; ASTM D638
	17.0 MPa	2470 psi	50 mm/min, 1A; ISO 527
Tensile Strength, Yield	22.0 MPa	3190 psi	50 mm/min; ISO 527
	23.0 MPa	3340 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	24 %	24 %	Type I, 50 mm/min; ASTM D638
	32 %	32 %	50 mm/min; ISO 527
Elongation at Yield	4.4 %	4.4 %	50 mm/min; ISO 527
	4.6 %	4.6 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	50 mm/min; ASTM D638
	2.01 GPa	292 ksi	1 mm/min; ISO 527
Flexural Modulus	1.90 GPa	276 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.07 GPa	300 ksi	2 mm/min, 64mm span; ISO 178
Izod Impact, Notched	1.18 J/cm	2.21 ft-lb/in	63.5*12.7*3.2mm, Cut; ASTM D256
Izod Impact, Unnotched	NB	NB	63.5*12.7*3.2mm, Cut; ASTM D4812

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4mm, Cut; ISO 180/1A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
Charpy Impact, Notched	NB	NB	80*10*4mm, Cut; ISO 179/1eA
	0.200 J/cm ²	0.952 ft-lb/in ²	80*10*4mm, Cut; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak, -30°C @ 6.6 m/s; ASTM D3763
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	19.0 J	14.0 ft-lb	Instrumented Impact Energy @ peak, @ 6.6 m/s; ASTM D3763
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	22.0 J	16.2 ft-lb	Instrumented Impact Energy @ peak, 6.6 m/s; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.0 µm/m-°C	32.8 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
CTE, linear, Transverse to Flow	148 µm/m-°C	82.2 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 100 °C	@Temperature -22.0 - 212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	80*10*4mm, Cut; ISO 75-1&2
	112 °C	234 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
	59.0 °C	138 °F	80*10*4mm, Cut; ISO 75-1&2
57.0 °C	135 °F		
	@Thickness 3.20 mm	@Thickness 0.126 in	ASTM D648
	Vicat Softening Point	130 °C	266 °F

Thermal Properties

Metric

English

Comments

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