

BASF Petra® 130 FR BK-112 30% Glass Filled PET

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass Fiber Filled, Flame Retardant

Material Notes:

Petra 130 FR BK-112 is a 30% glass fiber reinforced, black pigmented, flame retardant injection molding compound based on post-consumer and post-industrial recycle polyethylene terephthalate feedstocks. It is recognized as UL 94V-0/5VA by Underwriters Laboratories.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Petra-130-FR-BK-112-30-Glass-Filled-PET.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM Test
Tensile Strength at Break	125 MPa	18100 psi	0.2 in/min; ASTM Test
	50.0 MPa	7250 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	50.0 MPa	7250 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	75.0 MPa	10900 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	75.0 MPa	10900 psi	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	170 MPa	24700 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	170 MPa	24700 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	125 MPa	18100 psi	5mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5mm/min; ISO 527
	2.0 %	2.0 %	0.2 in/min; ASTM Test
	1.7 %	1.7 %	

Mechanical Properties	Metric	English	ASTM Test Comments
	1.7 % @Temperature -40.0 °C	1.7 % @Temperature -40.0 °F	ISO Data
	4.4 % @Temperature 80.0 °C	4.4 % @Temperature 176 °F	ASTM Test
	4.4 % @Temperature 80.0 °C	4.4 % @Temperature 176 °F	ISO Data
	5.6 % @Temperature 120 °C	5.6 % @Temperature 248 °F	ASTM Test
	5.6 % @Temperature 120 °C	5.6 % @Temperature 248 °F	ISO Data
Tensile Modulus	11.1 GPa	1610 ksi	1mm/min; ISO 527
	3.71 GPa @Temperature 120 °C	538 ksi @Temperature 248 °F	ISO Data
	6.04 GPa @Temperature 80.0 °C	876 ksi @Temperature 176 °F	ISO Data
	12.5 GPa @Temperature -40.0 °C	1810 ksi @Temperature -40.0 °F	ISO Data
Flexural Strength	210 MPa	30500 psi	ASTM Test
Flexural Modulus	9.70 GPa	1410 ksi	ASTM Test
Izod Impact, Notched	0.850 J/cm @Thickness 3.17 mm	1.59 ft-lb/in @Thickness 0.125 in	ASTM Test

Thermal Properties	Metric	English	Comments
CTE, linear	24.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -30.0 - 30.0 °C	13.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -22.0 - 86.0 °F	ASTM Test
Melting Point	245 °C	473 °F	10 K/min
	245 °C	473 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO 75
Deflection Temperature at 1.8 MPa	210 °C	410 °F	

(264 psi) Thermal Properties	Metric	English	ISO 75 Comments
Flammability, UL94	V-0	V-0	
	@Thickness 0.300 mm	@Thickness 0.0118 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	5VA	5VA	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Melt Temperature	275 °C	527 °F	Injection molding
Mold Temperature	115 °C	239 °F	Injection molding

Descriptive Properties	Value	Comments
Color	BK-112	
Commercial Status	Active America	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Flame retarding agent	
UL.UL-C	Yes	

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