

BASF Petra® 330 FR BK-112 30% Glass Filled PET

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

Material Notes:

Petra 330 FR BK-112 is a 30% glass reinforced, flame retardant PET, pigmented black injection molding compound rated UL94 V-0 in a 1/64 inch thickness. The product is designed for injection molding of thin and complex parts such as electrical bobbins. Due to its high crystallization rate the processability of the product in the injection molding process is very good. It exhibits excellent balance of properties including strength, stiffness, HDT, dimensional resistance and electrical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Petra-330-FR-BK-112-30-Glass-Filled-PET.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 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	135 MPa	19600 psi	0.2 in/min; ASTM Test
	60.0 MPa	8700 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	60.0 MPa	8700 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	82.0 MPa	11900 psi	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	82.0 MPa	11900 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	135 MPa	19600 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

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.0 %	2.0 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.1 %	4.1 %	ASTM Test
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.1 %	4.1 %	ISO Data
	@Temperature 80.0 °C	@Temperature 176 °F	
	5.7 %	5.7 %	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	5.7 %	5.7 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Flexural Strength	215 MPa	31200 psi	ASTM Test
Flexural Modulus	9.93 GPa	1440 ksi	ASTM Test
Izod Impact, Notched	0.900 J/cm	1.69 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	250 °C	482 °F	10 K/min
	255 °C	491 °F	ASTM Test
Deflection Temperature at 1.8 MPa (264 psi)	223 °C	433 °F	ASTM Test
Flammability, UL94	V-0	V-0	
	@Thickness 0.300 mm	@Thickness 0.0118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.9	3.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Dielectric Strength Electrical Properties	34.0 kV/mm Metric	864 kV/in English	IEC 60243-1 Comments
Dissipation Factor	0.010	0.010	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	0.020	0.020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	260 V	260 V	IEC 60112

Descriptive Properties	Value	Comments
Color	BK-112	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
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