

BASF Petra® 110 BK-112 15% Glass Filled PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 20% Glass Reinforced

Material Notes:

Petra 110 is a 15% glass fiber reinforced, black pigmented, polyethylene terephthalate injection molding compound. It exhibits a good combination of performance properties including good strength and stiffness at elevated temperatures with good chemical resistance and dimensional stability.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Petra-110-BK-112-15-Glass-Filled-PET.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	105 MPa	15200 psi	5mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	5mm/min; ISO 527
	3.5 %	3.5 %	0.2 in/min; ASTM Test
Tensile Modulus	6.68 GPa	969 ksi	1mm/min; ISO 527
Flexural Strength	145 MPa	21000 psi	ASTM Test
Flexural Modulus	5.35 GPa	776 ksi	ASTM Test
	5.48 GPa	795 ksi	ISO Data
Izod Impact, Notched	0.650 J/cm @Thickness 3.17 mm	1.22 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO Test
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 μm/m-°C	17.8 μin/in-°F	ISO 11359
CTE, linear, Transverse to Flow	79.0 μm/m-°C	43.9 μin/in-°F	ISO 11359
Melting Point	245 °C	473 °F	10 K/min
	245 °C	473 °F	ASTM Test

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	231 °C	448 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	192 °C	378 °F	ISO 75
	208 °C	406 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
Dissipation Factor	0.010	0.010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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 Descriptive Properties	Injection Molding Value	Comments
UL.UL-C	Yes	

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