

BASF Petra® 140 BK-112 45% Glass Filled PET

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

Material Notes:

Petra 140 BK-112 is a 45% glass reinforced, pigmented black, polyethylene terephthalate (PET) injection molding compound offering an increased level of strength, stiffness, high temperature performance and dimensional stability. Resistance to creep under load is excellent and it maintains the inherent chemical and electrical properties associated with polyester.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Petra-140-BK-112-45-Glass-Filled-PET.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Viscosity Measurement	0.52	0.52	Inherent Viscosity
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM Test
Tensile Strength at Break	170 MPa	24700 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	170 MPa	24700 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
Tensile Modulus	14.6 GPa	2120 ksi	1mm/min; ISO 527
Flexural Strength	278 MPa	40300 psi	ASTM Test
Flexural Modulus	12.7 GPa	1840 ksi	ASTM Test
	12.8 GPa	1860 ksi	ISO Data
Izod Impact, Notched	0.900 J/cm @Thickness 3.17 mm	1.69 ft-lb/in @Thickness 0.125 in	ASTM Test
Izod Impact, Unnotched	8.70 J/cm	16.3 ft-lb/in	ASTM Test
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO Test
	11.5 kJ/m ² @Temperature -40.0 °C	5.47 ft-lb/in ² @Temperature -40.0 °F	ISO Test
Charpy Impact, Notched	1.15 J/cm ²	5.47 ft-lb/in ²	ISO 179

Mechanical Properties	Metric/cm ²	English/lb/in ²	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 119

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 μm/m-°C @Temperature -30.0 - 30.0 °C	12.2 μin/in-°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)	242 °C	468 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75
	224 °C	435 °F	ASTM Test

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	

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