

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

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

### Material Notes:

Petra 130 BK-112 is a 30% glass fiber reinforced, black pigmented polyethylene terephthalate injection molding compound. It exhibits a combination of performance properties including good strength and stiffness at elevated temperatures. It also has good chemical resistance and dimensional stability, and adequate ductility for most applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Petra-130-BK-112-30-Glass-Filled-PET.php](http://www.lookpolymers.com/polymer_BASF-Petra-130-BK-112-30-Glass-Filled-PET.php)

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ISO 1183
Viscosity Measurement	0.55	0.55	Inherent Viscosity
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM Data; MD

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM Test
Tensile Strength at Break	145 MPa	21000 psi	0.2 in/min; ASTM Test
	54.0 MPa	7830 psi	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
	211 MPa	30600 psi	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Tensile Strength, Ultimate	145 MPa	21000 psi	5mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	5mm/min; ISO 527
	3.0 %	3.0 %	0.2 in/min; ASTM Test
	2.3 %	2.3 %	ISO Data
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.0 %	4.0 %	ISO Data
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	10.2 GPa	1480 ksi	1mm/min; ISO 527
Flexural Strength	230 MPa	33400 psi	ASTM Test
Flexural Modulus	8.25 GPa	1200 ksi	ISO Data
	8.76 GPa	1270 ksi	ASTM Test

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.950 J/cm	1.24 ft-lb/in	ASTM Test
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	9.50 kJ/m <sup>2</sup>	4.52 ft-lb/in <sup>2</sup>	ISO Test
	8.50 kJ/m <sup>2</sup>	4.04 ft-lb/in <sup>2</sup>	
	@Temperature -40.0 °C	@Temperature -40.0 °F	ISO Test
Charpy Impact, Notched	0.900 J/cm <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	ISO 179
	0.850 J/cm <sup>2</sup>	4.05 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 µm/m-°C	12.8 µin/in-°F	ASTM Test
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Melting Point	245 °C	473 °F	10 K/min
	245 °C	473 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	235 °C	455 °F	ASTM Test
	240 °C	464 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75
	215 °C	419 °F	ASTM Test
Flammability, UL94	HB	HB	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093

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	
UL.UL-C	Yes	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China