

BASF Petra® 130 FR 30% Glass Filled PET

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

Material Notes:

Petra 130 FR is a 30% glass fiber reinforced, flame retardant injection molding polyethylene terephthalate feedstocks. It is recognized as UL 94V-0/5VA by Underwriters Laboratories. It is also available in pigmented versions.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Viscosity Measurement	0.49	0.49	Inherent Viscosity
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	130 MPa	18900 psi	0.2 in/min; ASTM Test
Tensile Strength, Ultimate	130 MPa	18900 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	11.1 GPa	1610 ksi	1mm/min; ISO 527
Flexural Strength	210 MPa	30500 psi	ASTM Test
	85.0 MPa	12300 psi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
	275 MPa	39900 psi	ASTM Test
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	9.70 GPa	1410 ksi	ASTM Test
	2.97 GPa	431 ksi	ASTM Test
	@Temperature 120 °C	@Temperature 248 °F	
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
CTE, linear	24.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM Test
	@Temperature -30.0 - 30.0 $^\circ\text{C}$	@Temperature -22.0 - 86.0 $^\circ\text{F}$	
CTE, linear, Parallel to Flow	24.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	13.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM Test
Melting Point	245 $^\circ\text{C}$	473 $^\circ\text{F}$	10 K/min
	245 $^\circ\text{C}$	473 $^\circ\text{F}$	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	240 $^\circ\text{C}$	464 $^\circ\text{F}$	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	210 $^\circ\text{C}$	410 $^\circ\text{F}$	ISO 75
	220 $^\circ\text{C}$	428 $^\circ\text{F}$	ASTM Test
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	
Oxygen Index	36 %	36 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+13$ ohm-cm	$\geq 1.00\text{e}+13$ ohm-cm	IEC 60093
Dielectric Constant	3.6	3.6	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	IEC 60243-1
Dissipation Factor	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.020	0.020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	275 °C	527 °F	Injection molding
Mold Temperature	115 °C	239 °F	Injection molding
Injection Velocity	115 mm/sec	4.53 in/sec	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
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