



Petra® 130 FR BK112

BASF Corporation - Polyethylene Terephthalate

Tuesday, November 5, 2019

General Information

Product Description

Petra 130 FR BK112 is a 30% glass fiber reinforced, black pigmented, flame retardant injection molding compound based on post-consumer and post-industrial recycle polyethylene terephthalate feedstocks. It is recognized as UL 94V-0/5VA by Underwriters Laboratories.

Applications

Petra 130 FR BK112 is generally recommended for applications such as electrical housing and bobbins.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Recycled Content	• Yes
Features	• Flame Retardant
Uses	• Bobbins • Electrical Housing
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.68		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break, -40°F	24700	psi	
Break, 73°F	18100	psi	
Break, 176°F	10900	psi	
Break, 250°F	7250	psi	
Tensile Elongation			ASTM D638
Break, -40°F	1.7	%	
Break, 73°F	2.0	%	
Break, 176°F	4.4	%	
Break, 250°F	5.6	%	
Flexural Modulus (73°F)	1.41E+6	psi	ASTM D790
Flexural Strength (73°F)	30500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.6	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	473	°F	ASTM D3418
CLTE - Flow	1.3E-5	in/in/°F	ASTM E831

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Thermal	Nominal Value	Unit	Test Method
RTI Elec			UL 746
0.030 in	311	°F	
0.06 in	311	°F	
0.12 in	311	°F	
RTI Imp			UL 746
0.012 in	167	°F	
0.030 in	311	°F	
0.06 in	311	°F	
0.12 in	311	°F	
RTI Str			UL 746
0.012 in	167	°F	
0.030 in	311	°F	
0.06 in	311	°F	
0.12 in	311	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.012 in	V-0		
0.030 in	V-0		
0.06 in	5VA		
0.12 in	V-0		
	5VA		
	V-0		
	5VA		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	212 to 230	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.