

Petra® 130 FR BK-112

Polyethylene Terephthalate

BASF Corporation

Message:

Petra 130 FR BK-112 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 BK-112 is generally recommended for applications such as electrical housing and bobbins.

General Information			
UL YellowCard	E36632-231235		
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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break, -40°C	170	MPa	
Break, 23°C	125	MPa	
Break, 80°C	75.0	MPa	
Break, 121°C	50.0	MPa	
Tensile Elongation			ASTM D638
Break, -40°C	1.7	%	
Break, 23°C	2.0	%	
Break, 80°C	4.4	%	
Break, 121°C	5.6	%	
Flexural Modulus (23°C)	9700	MPa	ASTM D790
Flexural Strength (23°C)	210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Peak Melting Temperature	245	°C	ASTM D3418
CLTE - Flow	2.4E-5	cm/cm/°C	ASTM E831
RTI Elec			UL 746
0.300 mm	75.0	°C	
0.750 mm	155	°C	
1.50 mm	155	°C	
3.00 mm	155	°C	
RTI Imp			UL 746
0.300 mm	75.0	°C	
0.750 mm	155	°C	
1.50 mm	155	°C	
3.00 mm	155	°C	
RTI Str			UL 746
0.300 mm	75.0	°C	
0.750 mm	155	°C	
1.50 mm	155	°C	
3.00 mm	155	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.300 mm	V-0		
	V-0		
0.750 mm	5VA		
	V-0		
1.50 mm	5VA		
	V-0		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	100 to 110	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		

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