

Petra® 130 FR BK-112

Polyethylene Terephthalate

BASF Corporation

Product Description
 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.

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Additive	• Ignition Resistant
Recycled Content	• Yes
Features	• Flame Retardant
Uses	• Electrical Housing
Agency Ratings	• ULC Unspecified Rating
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	%	ASTM D955

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)	85.0	J/m	ASTM D256

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785

Thermal	Nominal Value	Unit	Test Method
Melting Temperature	245	°C	ASTM D3418
CLTE - Flow	0.000024	cm/cm/°C	ASTM E831

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	• •	V-0 5VA	UL 94

UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	155	°C	UL 746
RTI Imp (1.50 mm)	155	°C	UL 746
RTI Elec (1.50 mm)	155	°C	UL 746

Injection	Nominal Value	Unit
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.010	%
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	100 to 110	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Notes

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

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