

Petra® 130 FR

Polyethylene Terephthalate

BASF Corporation

Product Description			
Petra 130 FR is a 30% glass fiber reinforced, 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. It is also available in pigmented versions.			
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	• Good Dimensional Stability	• Good Thermal Stability
	• Good Chemical Resistance	• Good Stiffness	• High Strength
Uses	• Automotive Applications	• Electrical Parts	• Housings
	• Connectors	• Electronic Data Processing	• Protective Coverings
Agency Ratings	• ULC Unspecified Rating		
Appearance	• Black	• Colors Available	• Natural Color
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 (Break, 23°C)	130	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus			ASTM D790
-40°C	12400	MPa	
23°C	9700	MPa	
121°C	2970	MPa	
Flexural Strength			ASTM D790
-40°C	275	MPa	
23°C	210	MPa	
121°C	85.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	90.0	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	220	°C	
Melting Temperature	245	°C	ASTM D3418
CLTE - Flow	0.000024	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (1.50 mm)	> 1.0E+13	ohm·cm	ASTM D257
Dielectric Strength ² (1.50 mm)	22	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	•	V-0	UL 94
	•	5VA	
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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, December 15, 2009

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	

Notes

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

² Method A (Short-Time)

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