

Petra® 130 BK-112

Polyethylene Terephthalate

BASF Corporation

Product Description			
Petra 130 BK-112 is a 30% glass fiber reinforced, black pigmented polyethylene terephthalate injection molding compound. It exhibits a superb combination of performance properties including good strength and stiffness at elevated temperatures. It also has good chemical resistance and dimensional stability, and adequate ductility for most applications.			
General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Features	• Good Chemical Resistance	• Good Stiffness	
	• Good Dimensional Stability	• Good Strength	
Uses	• Automotive Applications	• Gears	• Machine/Mechanical Parts
	• Electrical Parts	• Housings	
Agency Ratings	• ULC Unspecified Rating		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.55	g/cm ³	ASTM D792
--	1550	kg/m ³	ISO 1183 ²
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	10200	MPa	ISO 527-2 ²
Tensile Strength			
Break, 23°C	145	MPa	ASTM D638
Break, -40°C	211	MPa	ISO 527-2
Break, 121°C	54.0	MPa	ISO 527-2
Break	145	MPa	ISO 527-2 ²
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2 ²
Flexural Modulus			
23°C	8760	MPa	ASTM D790
23°C	8250	MPa	ISO 178
Flexural Strength (23°C)	230	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ²
-30°C	8.50	kJ/m ²	
23°C	9.00	kJ/m ²	
Notched Izod Impact			
23°C	95.0	J/m	ASTM D256
-40°C	8.50	kJ/m ²	ISO 180
23°C	9.50	kJ/m ²	ISO 180
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	235	°C	ASTM D648
0.45 MPa	240	°C	ISO 75-2 ²
1.8 MPa, Unannealed	215	°C	ASTM D648
1.8 MPa	210	°C	ISO 75-2 ²
Melting Temperature	245	°C	ASTM D3418 ISO 3146
CLTE - Flow	0.000023	cm/cm/°C	ASTM E831

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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Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			
1.50 mm	> 1.0E+13	ohm·cm	ASTM D257
--	> 1.0E+11	ohm·m	IEC 60093 ²
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	140	°C	UL 746
RTI Imp (1.50 mm)	140	°C	UL 746
RTI Elec (1.50 mm)	140	°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		

Notes

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

² Tested in accordance with ISO 10350, 23°C/50%r.h. unless otherwise noted.

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