

Petra® 330 FR BK-112

Polyethylene Terephthalate

BASF Corporation

Product Description				
Petra 330 FR BK-112 is a 30% glass reinforced, flame retardant PET, pigmented black injection molding compound rated UL94 V-0 in a 1/64 inch thickness. The product is designed for injection molding of thin and complex parts such as electrical bobbins. Due to its high crystallization rate the processability of the product in the injection molding process is very good. It exhibits excellent balance of properties including strength, stiffness, HDT, dimensional resistance and electrical properties.				
General				
Material Status	• Commercial: Active			
Availability	• North America			
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight			
Features	• Flame Retardant	• Good Electrical Properties	• Good Stiffness	
	• Good Dimensional Stability	• Good Processability	• Good Strength	
Uses	• Connectors	• Housings	• Switches	
	• Electrical Parts	• Protective Coverings		
Agency Ratings	• ULC Unspecified Rating			
Appearance	• Black			
Forms	• Pellets			
Processing Method	• Injection Molding			
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1)	• Secant Modulus vs. Strain (ISO 11403-1)		
Physical		Nominal Value	Unit	Test Method
Specific Gravity		1.67	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		135	MPa	
Break, 80°C		82.0	MPa	
Break, 121°C		60.0	MPa	
Tensile Elongation				ASTM D638
Break, -40°C		2.0	%	
Break, 23°C		2.0	%	
Break, 80°C		4.1	%	
Break, 121°C		5.7	%	
Flexural Modulus (23°C)		9930	MPa	ASTM D790
Flexural Strength (23°C)		215	MPa	ASTM D790
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		223	°C	
Melting Temperature		250	°C	ASTM D3418
Electrical		Nominal Value	Unit	Test Method
Volume Resistivity (1.50 mm)		> 1.0E+13	ohm·cm	ASTM D257
Dielectric Strength ² (1.50 mm)		29	kV/mm	ASTM D149
Flammability		Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)		V-0		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

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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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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