

Razadur® K116GR30

Razadur K116 GR30 is an injection molding heat stabilized grade natural color polybutylene terephthalate (PBT) reinforced with 30% Glass Fiber. It combines good strength, stiffness and toughness as well as excellent processability as well as heat, chemical, and electrical resistance.

Properties	Test Method	Unit	Value
Physical			
Density	ASTM D 792	g/cm ³	1.5
Water Content	ASTM D 570	%	0.1
Linear Mold Shrinkage	ASTM D 955	%	1

Mechanical			
Tensile Strength, Yield	ASTM D 638	MPa	120
Elongation at Break	ASTM D 638	%	4
Flexural Strength	ASTM D 790	MPa	180
Flexural Modulus	ASTM D 790	MPa	8200
Izod Impact, Notched @ 23 °C	ASTM D 256	kJ/m ²	10
@ -30 °C			-

Thermal			
Melting Point	ASTM D 3418	°C	225
Deflection Temperature Under Load @ 0.46 MPa	ASTM D 648		190
@ 1.8 MPa		°C	100
Vicat Softening point	ASTM D 1525	°C	210

Electrical			
Surface Resistivity	IEC 60093	Ohm	10 ¹²
Volume Resistivity	IEC 60093	Ohm.cm	10 ¹³
Dielectric constant	ASTMD 150		
Dielectric strength	ASTM D 149	KV/mm	22

Processing						
Drying:						
	Drying Time:	2 – 4 hr		Drying Temperature	90 - 110 °C	
Injection Molding:						
Item	Rear Temp (°C)	Middle Temp (°C)	Front Temp (°C)	Melt Temp (°C)	Mold Temp (°C)	Inj. Pressure (Mpa)
Min	240	240	240	260	40	50
Max	270	270	270	270	120	120

The data contained in this publication are based on our current knowledge and experience. In view of the many actors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.

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