Razamid®A121 GR30

Razamid A121 GR30 is an injection grade black color polyamide 66 resin reinforced with 30% Glass Fiber. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

Properties	Test Method	Unit	Value
Physical			
Density	ASTM D 792	g/cm^3	1.37
Linear Mold Shrinkage	ASTM D 955	%	0.3

Properties	Test Method	Unit	Value
Mechanical			
Tensile Strength, Yield	ASTM D 638	MPa	180
Elongation at Break	ASTM D 638	%	4
Flexural Strength	ASTM D 790	MPa	260
Flexural Modulus	ASTM D 790	MPa	9000
Charpy Impact, Notched @ 23 °C	ASTM D 6110	KJ/m^2	10
@ -30 °C			-

Properties	Test Method	Unit	Value
Thermal			
Melting Point	ASTM D 3418	°C	260
Deflection Temperature Under Load @ 0.46 MPa	ASTM D 648		248
@ 1.8 MPa		°C	250
Vicat Softening point	ASTM D 1525	°C	240

Properties	Test Method	Unit	Value
Electrical			
Surface Resistivity	IEC 60093	Ohm	10^{12}
Volume Resistivity	IEC 60093	Ohm.cm	10^{13}
Dielectric constant	ASTM D 150		-
Dielectric strength	ASTM D 149	KV/mm	-

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	260	265	275	275	50	55
Max	280	300	305	310	80	140

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.