

Razamid® B121 GR30

Polyamide 6

Razin™ Engineering Plastics

Message:

Razamid B121 GR30 is an injection grade black color polyamide 6 resin reinforced with 30% Glass Fiber. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	High Heat Resistance		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80	%	ASTM D955
Water Absorption (Saturation)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	175	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	8600	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	11	J/m	
23°C	15	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	205	°C	
Vicat Softening Temperature	200	°C	ASTM D1525
Peak Melting Temperature	220	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093

Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant	3.80		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	220 to 240	°C	
Middle Temperature	240 to 260	°C	
Front Temperature	255 to 275	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	30.0 to 60.0	°C	
Injection Pressure	55.0 to 140	MPa	

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