

Razamid® B111 GR35

Polyamide 6

Razin™ Engineering Plastics

Message:

Razamid B111 GR35 is an injection grade natural color polyamide 6 resin reinforced with 35% Glass Fiber. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	High Heat Resistance		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	195	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	10500	MPa	ASTM D790
Flexural Strength	280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	18.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	220	°C	
1.8 MPa, Unannealed	212	°C	
Vicat Softening Temperature	210	°C	ASTM D1525
Peak Melting Temperature	225	°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	18	kV/mm	ASTM D149
Dielectric Constant	3.80		ASTM D150
Injection	Nominal Value	Unit	

Drying Temperature	80.0 to 100	°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	270 to 290	°C
Mold Temperature	80.0 to 90.0	°C
Injection Pressure	55.0 to 140	MPa

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