

# Razamid® A121U GR30-50

Polyamide 66

Razin™ Engineering Plastics

## Message:

Razamid A121U GR30-50 is an injection grade black color impact modified polyamide 66 resin reinforced with 30% Glass Fiber. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance. This grade designed for automotive water radiator.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	High Heat Resistance		
	Impact Modified		
Uses	Automotive Applications		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	130	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	8500	MPa	ASTM D790
Flexural Strength	210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	12.0	kJ/m <sup>2</sup>	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	255	°C	ASTM D648
Vicat Softening Temperature	240	°C	ASTM D1525
Peak Melting Temperature	260	°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	13	kV/mm	ASTM D149
Injection	Nominal Value	Unit	

Drying Temperature	100 to 120	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	260 to 280	°C
Middle Temperature	265 to 300	°C
Front Temperature	275 to 305	°C
Processing (Melt) Temp	275 to 310	°C
Mold Temperature	50.0 to 80.0	°C
Injection Pressure	55.0 to 140	MPa

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#### Recommended distributors for this material

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