

Razin™ Engineering Plastics		Quality Management System	
Form Code:7Te02F1	No.:A121UGR20-50	<b>Product Information</b>	

### Razamid® A121U GR20-50

Razamid A121U GR20-50 is an injection grade black color impact modified polyamide 66 resin reinforced with 20% Glass Fiber. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

Properties	Test Method	Unit	Value
<b>Physical</b>			
Density	ASTM D 792	g/cm <sup>3</sup>	1.3
Linear Mold Shrinkage	ASTM D 955	%	0.5-1

<b>Mechanical</b>			
Tensile Strength, Yield	ASTM D 638	MPa	95
Elongation at Break	ASTM D 638	%	3.5
Flexural Strength	ASTM D 790	MPa	160
Flexural Modulus	ASTM D 790	MPa	5900
Izod Impact, Notched @ 23 °C @ -30 °C	ASTM D 256	KJ/m <sup>2</sup>	12 -

<b>Thermal</b>			
Melting Point	ASTM D 3418	°C	260
Deflection Temperature Under Load @ 0.46 MPa @ 1.8 MPa	ASTM D 648	°C	255 -
Vicat Softening point	ASTM D 1525	°C	240

<b>Electrical</b>			
Surface Resistivity	IEC 60093	Ohm	10 <sup>12</sup>
Volume Resistivity	IEC 60093	Ohm.cm	10 <sup>13</sup>
Dielectric constant	ASTM D 150		
Dielectric strength	ASTM D 149	KV/mm	13

<b>Processing</b>						
Drying:						
	Drying Time: 2 – 4 hr		Drying Temperature:		100 - 120 °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.

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