

Razin™ Engineering Plastics		Quality Management System	
Form Code:7Te02F1	No.:B121U-51	Product Information	

Razamid® B121U-51

Razamid B121U-51 is an Injection grade impact modified black color polyamide 6 resin. 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	1.1
Linear Mold Shrinkage	ASTM D 955	%	0.9

Mechanical			
Tensile Strength, Yield	ASTM D 638	MPa	55
Elongation at Break	ASTM D 638	%	20
Flexural Strength	ASTM D 790	MPa	95
Flexural Modulus	ASTM D 790	MPa	2000
Izod Impact, Notched @ 23 °C	ASTM D 256	KJ/m ²	15
@ -30 °C			-

Thermal			
Melting Point	ASTM D 3418	°C	215
Deflection Temperature Under Load @ 0.46 MPa	ASTM D 648		185
@ 1.8 MPa		°C	-
Vicat Softening point	ASTM D 1525	°C	200

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	20

Processing						
Drying:						
	Drying Time:		2.0 – 4.0 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.

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