

Reny® NXG5050NF

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® NXG5050NF is a Polyarylamide (PARA) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Reny® NXG5050NF: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	3.7	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	2.10	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21900	MPa	ISO 527-2
Tensile Stress (Break)	198	MPa	ISO 527-2
Tensile Strain (Break)	1.2	%	ISO 527-2
Flexural Modulus	18200	MPa	ISO 178
Flexural Stress	348	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	67	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	219	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	1.0E-5	cm/cm/°C	
Transverse	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric Strength (2.00 mm)	25	kV/mm	IEC 60243-1
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
A	120	°C	
B	80.0	°C	

Drying Time		
A	> 3.0	hr
B	> 12	hr
Rear Temperature	270	°C
Middle Temperature	275	°C
Front Temperature	280	°C
Nozzle Temperature	280	°C
Mold Temperature	120 to 140	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate-Fast	
Screw Speed	60 to 150	rpm

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Recommended distributors for this material

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