

Reny® NXG5050

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® NXG5050 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® NXG5050: Flame Rated.

General Information				
UL YellowCard		E41179-231797		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	4.5	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	3.70	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.50	--	%	
Water Absorption				
Saturation, 23°C	0.17	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	18800	17400	MPa	ISO 527-2
Tensile Stress (Break)	205	191	MPa	ISO 527-2
Tensile Strain (Break)	1.5	1.7	%	ISO 527-2
Flexural Modulus	16800	16400	MPa	ISO 178
Flexural Stress	338	304	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.6	9.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	68	58	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	235	231	°C	ISO 75-2/B
1.8 MPa, Unannealed	221	216	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	1.0E+15	2.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	4.0E+14	ohms·cm	IEC 60093
Electric Strength				IEC 60243-1
1.00 mm	26	23	kV/mm	
2.00 mm	21	18	kV/mm	
Relative Permittivity				IEC 60250
100 Hz	--	5.00		
1 MHz	--	5.00		
Dissipation Factor				IEC 60250
100 Hz	--	0.018		
1 MHz	--	0.013		
Comparative Tracking Index	200	250	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	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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