

Reny® NXG5945S

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® NXG5945S is a Polyarylamide (PARA) material filled with 45% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Reny® NXG5945S: Flame Rated.

General Information				
UL YellowCard		E41179-535314		
Filler / Reinforcement		Glass Fiber,45% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.52	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/5.0 kg)	13	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	8.50	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.32	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.73	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16000	15400	MPa	ISO 527-2
Tensile Stress (Break)	208	202	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.2	%	ISO 527-2
Flexural Modulus	14300	14000	MPa	ISO 178
Flexural Stress	349	315	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	14	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	77	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	232	--	°C	ISO 75-2/A
Glass Transition Temperature	87.0	--	°C	ISO 11357-2
Melting Temperature	257	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-5	--	cm/cm/°C	
Transverse	5.6E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned		Test Method
Relative Permittivity				IEC 60250

100 Hz	4.20	4.60	
1 MHz	4.10	4.20	
Dissipation Factor			IEC 60250
100 Hz	5.5E-3	0.020	
1 MHz	6.7E-3	0.012	
Flammability	Dry	Conditioned	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	280		°C
Middle Temperature	285		°C
Front Temperature	290		°C
Nozzle Temperature	290		°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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