

Reny® 1022H

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1022H 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® 1022H: Flame Rated.

General Information				
UL YellowCard		E41179-231738		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.65	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	8.3	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	3.40	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.40	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.14	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	20400	19300	MPa	ISO 527-2
Tensile Stress (Break)	260	214	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.1	%	ISO 527-2
Flexural Modulus	18400	15100	MPa	ISO 178
Flexural Stress	390	318	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	72	58	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	238	233	°C	ISO 75-2/B
1.8 MPa, Unannealed	230	223	°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+16	8.0E+14	ohms	IEC 60093
Volume Resistivity	2.0E+16	1.0E+15	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	27	25	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	5.00	5.00		
1 MHz	5.00	5.00		
Dissipation Factor				IEC 60250
100 Hz	7.0E-3	0.020		
1 MHz	8.0E-3	0.017		
Comparative Tracking Index	575	550	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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