

Reny® 1022HS

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1022HS 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® 1022HS: Flame Rated.

General Information				
UL YellowCard		E41179-231738	E41179-231739	
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.66	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	6.0	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	3.00	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.34	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.10	--	%	
Equilibrium, 23°C, 50% RH	0.87	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	21900	21000	MPa	ISO 527-2
Tensile Stress (Break)	236	233	MPa	ISO 527-2
Tensile Strain (Break)	1.5	1.6	%	ISO 527-2
Flexural Modulus	19100	19000	MPa	ISO 178
Flexural Stress	384	326	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	61	40	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	--	°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	5.0E+15	--	ohms	IEC 60093
Volume Resistivity	1.0E+16	--	ohms·cm	IEC 60093

Electric Strength				IEC 60243-1
1.00 mm	33	--	kV/mm	
2.00 mm	24	--	kV/mm	
Relative Permittivity (1 MHz)				IEC 60250
	4.70	--		
Dissipation Factor (1 MHz)				IEC 60250
	9.0E-3	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	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	80.0 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

