

Reny® 1511AH

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 1511AH is a Polyarylamide (PARA) material filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® 1511AH are:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E41179-231749		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage	0.49	%	
Water Absorption			ISO 62
Saturation, 23°C	0.15	%	
Equilibrium, 23°C, 50% RH	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16500	MPa	ISO 527-2
Tensile Stress (Break)	197	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	302	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	237	°C	ISO 75-2/B
1.8 MPa, Unannealed	224	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.0E+15	ohms	IEC 60093
Volume Resistivity	7.0E+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)	4.00		IEC 60250

Dissipation Factor (1 MHz)	9.0E-3		IEC 60250
Comparative Tracking Index	325	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	260	°C	
Middle Temperature	265	°C	
Front Temperature	270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	120 to 145	°C	
Injection Pressure	20.0 to 150	MPa	
Injection Rate	Moderate-Fast		
Screw Speed	60 to 150	rpm	

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