

Reny® 4001

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 4001 is a Polyarylamide (PARA) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® 4001 are:

Flame Rated

Conductive

General Information				
UL YellowCard		E41179-231768		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Electrically Conductive		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.50	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	5.0	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	3.40	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.38	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.090	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17900	14700	MPa	ISO 527-2
Tensile Stress (Break)	124	126	MPa	ISO 527-2
Tensile Strain (Break)	0.90	1.1	%	ISO 527-2
Flexural Modulus	16600	14100	MPa	ISO 178
Flexural Stress	204	188	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.2	4.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	19	17	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	236	232	°C	ISO 75-2/B
1.8 MPa, Unannealed	224	213	°C	ISO 75-2/A
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	260	°C
Middle Temperature	265	°C
Front Temperature	270	°C
Nozzle Temperature	270	°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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