

Reny® 2505

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® 2505 is a Polyarylamide (PARA) material filled with 15% glass\mineral. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® 2505 are:

Flame Rated

Flame Retardant

General Information				
UL YellowCard		E41179-231762		
Filler / Reinforcement		Glass\Mineral, 15% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.81	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	11	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	6.20	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.43	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.13	--	%	
Equilibrium, 23°C, 50% RH	0.70	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13900	13600	MPa	ISO 527-2
Tensile Stress (Break)	124	109	MPa	ISO 527-2
Tensile Strain (Break)	1.2	1.1	%	ISO 527-2
Flexural Modulus	13600	12900	MPa	ISO 178
Flexural Stress	200	176	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.2	3.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	25	20	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	236	231	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	205	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method

Comparative Tracking Index	> 600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-0	--		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 145		°C	
Injection Pressure	20.0 to 150		MPa	
Injection Rate	Moderate-Fast			
Screw Speed	60 to 150		rpm	

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