

Reny® W38S2

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® W38S2 is a Polyarylamide (PARA) material filled with 30% mineral. It is available in Asia Pacific, Europe, or North America for injection molding. Important attributes of Reny® W38S2 are:

Flame Rated

Wear Resistant

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Features		Good Wear Resistance		
		Low Friction		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.64	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	49	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	31.2	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.44	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.12	--	%	
Equilibrium, 23°C, 50% RH	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16200	15900	MPa	ISO 527-2
Tensile Stress (Break)	121	111	MPa	ISO 527-2
Tensile Strain (Break)	0.90	0.80	%	ISO 527-2
Flexural Modulus	15200	15100	MPa	ISO 178
Flexural Stress	226	216	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.8	2.1	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	18	22	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	239	239	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	206	°C	ISO 75-2/A
CLTE				ISO 11359-2

Flow	2.0E-5	--	cm/cm/°C	
Transverse	4.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	2.0E+14	--	ohms	IEC 60093
Volume Resistivity	2.0E+15	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	26	--	kV/mm	IEC 60243-1
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	275		°C	
Middle Temperature	280		°C	
Front Temperature	285		°C	
Nozzle Temperature	285		°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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