

Reny® PG1050A

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® PG1050A 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® PG1050A: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	5.5	--	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	2.80	--	cm ³ /10min	ISO 1133
Molding Shrinkage	0.36	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.060	--	%	
Equilibrium, 23°C, 50% RH	0.80	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	19100	18700	MPa	ISO 527-2
Tensile Stress (Break)	215	205	MPa	ISO 527-2
Tensile Strain (Break)	1.7	2.0	%	ISO 527-2
Flexural Modulus	17400	17100	MPa	ISO 178
Flexural Stress	363	326	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	18	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	59	55	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	236	233	°C	ISO 75-2/B
1.8 MPa, Unannealed	224	220	°C	ISO 75-2/A
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	5.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	6.0E+16	1.0E+14	ohms	IEC 60093

Volume Resistivity	2.0E+16	8.0E+14	ohms·cm	IEC 60093
Electric Strength				IEC 60243-1
1.00 mm	29	28	kV/mm	
2.00 mm	23	21	kV/mm	
Relative Permittivity				IEC 60250
100 Hz	--	5.00		
1 MHz	--	4.00		
Dissipation Factor				IEC 60250
100 Hz	--	0.026		
1 MHz	--	0.012		
Comparative Tracking Index	> 600	> 600	V	IEC 60112
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	270		°C	
Middle Temperature	275		°C	
Front Temperature	280		°C	
Nozzle Temperature	280		°C	
Mold Temperature	120 to 140		°C	
Injection Pressure	20.0 to 150		MPa	
Injection Rate	Moderate-Fast			
Screw Speed	60 to 150		rpm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT