

# Reny® 1038

Polyarylamide

Mitsubishi Engineering-Plastics Corp

## Message:

Reny® 1038 is a Polyarylamide (PARA) material filled with 60% long glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Reny® 1038: Flame Rated.

General Information				
Filler / Reinforcement	Long Glass Fiber,60% Filler by Weight			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.76	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.41	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.10	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	26700	21300	MPa	ISO 527-2
Tensile Stress (Break)	262	259	MPa	ISO 527-2
Tensile Strain (Break)	1.3	1.6	%	ISO 527-2
Flexural Modulus	24000	23000	MPa	ISO 178
Flexural Stress	477	409	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	35	36	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	86	kJ/m <sup>2</sup>	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	239	236	°C	ISO 75-2/B
1.8 MPa, Unannealed	234	227	°C	ISO 75-2/A
Flammability	Dry	Conditioned	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

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#### 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

