

Reny® C-408

Polyarylamide

Mitsubishi Engineering-Plastics Corp

Message:

Reny® C-408 is a Polyarylamide (PARA) material filled with 40% long carbon fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Reny® C-408: Flame Rated.

General Information				
Filler / Reinforcement		Long Carbon Fiber,40% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183
Molding Shrinkage	0.28	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	34200	29900	MPa	ISO 527-2
Tensile Stress (Break)	287	251	MPa	ISO 527-2
Tensile Strain (Break)	0.90	1.0	%	ISO 527-2
Flexural Modulus	33000	31000	MPa	ISO 178
Flexural Stress	500	450	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	46	43	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	238	238	°C	ISO 75-2/B
1.8 MPa, Unannealed	234	226	°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

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