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J1

RTM Polyimide

Product Description

J1 is a high-temperature thermosetting polyimide resin with service capability up to 371°C. Its low powder melt viscosity (300-600 cP at 274°C) makes J1 one of a small number of polyimides suitable for use in resin transfer molding (RTM) processes.

J1 does not contain the toxic diamine 4,4'-methylenedianiline (MDA) or any other mutagenic or carcinogenic components. Although it is most suited for RTM processing, its chemistry also allows for the use of autoclave processing or compression molding.

J1 is available as a PMR-type resin solution or as a pre-imidized powder from Maverick Corporation.

Resin Properties

Resin Properties	Test Parameters	Units	Typical Values
Solution Solids Content	204°C/180 min cure	%	60 - 65
Solution Density (Room Temp.)	-	g/mL	1.10 - 1.15
Solution Viscosity (Room Temp)	Brookfield spindle #RV-4, 100 rpm	cP	100 - 500
Powder Melt Viscosity	274°C, Brookfield spindle #27, 50 rpm	cP	300 - 600
Powder Volatile Content	TGA ramp to 399°C	%	4 - 6

Disclaimer: The data listed herein fall within the normal range of properties but should not be used to establish specification limits or used alone as the basis of design. Maverick Corporation assumes no obligations or liabilities for any advice furnished or for any results obtained with respect to this information. All such advice is given and accepted at buyer's risk.