

NeXolve Novastrat® 800 Polyimide

Category : Polymer , Film , Thermoset , Polyimide, TS , Polyimide, Thermoset Film

Material Notes:

High temperature polyimide film with low coefficient of thermal expansion. NeXolve Novastrat® 800 is a high temperature polyimide film with low coefficient of thermal expansion (CTE), ~4 ppm/°C from -140 °C to +225 °C, that closely matches the CTE of many metals and metal oxides. Novastrat® 800 has been successfully used in applications requiring the stability of low CTE from cryogenic conditions (less than -150 °C, -238 °F) to very high temperatures (greater than 250 °C, 482 °F). Novastrat® 800 is a recommended grade for applications that require low CTE and stable properties across a wide range of operating temperatures. Novastrat® 800 is provided as a film in sheet form, or liquid resin for spray or flow casting operations. As a liquid, it bonds well to metals and metal oxides, and is supplied with and without a variety of internal adhesion promoters. Information Provided by NeXolve Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NeXolve-Novastrat-800-Polyimide.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	272 MPa	39500 psi	ASTM D882-02
	@Thickness 0.0178 mm	@Thickness 0.000701 in	
Elongation at Break	6.0 %	6.0 %	ASTM D882-02
	@Thickness 0.0178 mm	@Thickness 0.000701 in	
Tensile Modulus	8.00 GPa	1160 ksi	ASTM D882-02
	@Thickness 0.0178 mm	@Thickness 0.000701 in	

Thermal Properties	Metric	English	Comments
CTE, linear	6.00 µm/m-°C	3.33 µin/in-°F	ASTM E831-06
	@Thickness 1.00 mm, Temperature -125 - 20.0 °C	@Thickness 0.0394 in, Temperature -193 - 68.0 °F	
Glass Transition Temp, Tg	341 °C	646 °F	DSC; ASTM E1356-03

Optical Properties	Metric	English	Comments
Refractive Index	1.62	1.62	Abbe; ASTM D542-00
	@Wavelength 549 nm	@Wavelength 549 nm	
UV Transmittance	50 %	50 %	50% Transmission UV Cutoff
	@Thickness 0.0178 mm, Wavelength 438 nm	@Thickness 0.000700 in, Wavelength 438 nm	

Descriptive Properties	Value	Comments
Applications	Advanced Composites	
	Electrical Insulators	
	Industrial Tapes	
	Space Structures	
	Thermal Insulation	
Characteristics	Bonds directly to metals and metal oxides	
	Conductive and non-conductive grades	
	High heat stability	
	Low coefficient of thermal expansion	
Solar Absorptivity	0.1	0.7 mil thickness; ASTM E903-96

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