

NeXolve Novastrat® 400 Polyimide

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

Material Notes:

Colorless polyimide with high temperature stability. NeXolve Novastrat® 400 is a colorless polyimide with a higher temperature stability than NeXolve's LaRC™ CP1, exhibiting a glass transition temperature exceeding 350°C. These properties lend Novastrat® 400 for a wide variety of uses in display applications, space structures, thermal insulation, electrical insulators, industrial tapes and advanced composites. For applications requiring transparency, traditional polyimides are highly absorptive in the UV and blue region, and absorb significant amounts of energy, leading to high thermal loads. Novastrat® 400, however, is much less absorptive and provides much less lower thermal loads and higher optical transparency. Additionally, Novastrat® 400 is solvent soluble and can be spray-applied and cured at low temperatures while retaining high temperature stability typical of polyimide films. Novastrat® 400 is provided as a film or liquid resin for spray or flow casting operations. Information Provided by NeXolve Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NeXolve-Novastrat-400-Polyimide.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	96.0 MPa	13900 psi	ASTM D882-02
	@Thickness 0.0250 mm	@Thickness 0.000984 in	
Elongation at Break	5.0 %	5.0 %	ASTM D882-02
Tensile Modulus	3.00 GPa	435 ksi	ASTM D882-02
	@Thickness 0.0250 mm	@Thickness 0.000984 in	

Thermal Properties	Metric	English	Comments
CTE, linear	39.0 µm/m-°C	21.7 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	353 °C	667 °F	DSC; ASTM E1356-03

Optical Properties	Metric	English	Comments
Refractive Index	1.59	1.59	Abbe; ASTM D542-00
	@Wavelength 549 nm	@Wavelength 549 nm	
UV Transmittance	50 %	50 %	50% Transmission UV Cutoff
	@Thickness 0.0250 mm, Wavelength 440 nm	@Thickness 0.000984 in, Wavelength 440 nm	

Descriptive Properties	Value	Comments
Applications	Advanced Composites	
	Display Applications	
	Electrical Insulators	
	Industrial Tapes	
	Space Structures	
	Thermal Insulation	
Characteristics	Conductive or non-conductive	
	High heat stability	
	High optical clarity	
	Low temperature curing	
	Low visible light absorption	
	Solvent soluble	
Solar Absorptivity	0	1 mil thickness; ASTM E903-96

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