

NeXolve Novastrat® 905 Polyimide

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

Material Notes:

High temperature polyimide film with essentially zero coefficient of thermal expansion. NeXolve Novastrat® 905 is a high temperature polyimide film with essentially zero coefficient of thermal expansion (CTE). Because of this unique property, Novastrat® 905 has been successfully used in demanding optics, satellite, and industrial applications that are exposed to severe temperature fluctuations. Novastrat® 905 is the recommended grade for applications that require essentially zero CTE and stable properties across a wide range of operating temperatures. Novastrat® 905 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-905-Polyimide.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	281 MPa	40800 psi	ASTM D882-02
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Elongation at Break	7.0 %	7.0 %	ASTM D882-02
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Tensile Modulus	7.50 GPa	1090 ksi	ASTM D882-02
	@Thickness 0.0200 mm	@Thickness 0.000787 in	

Thermal Properties	Metric	English	Comments
CTE, linear	0.000 µm/m-°C	0.000 µin/in-°F	ASTM E831-06
	@Thickness 1.00 mm, Temperature -125 - 20.0 °C	@Thickness 0.0394 in, Temperature -193 - 68.0 °F	

Optical Properties	Metric	English	Comments
Transmission, Visible	1.7 %	1.7 %	Solar Transmissivity; ASTM E903-96
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
UV Transmittance	50 %	50 %	50% Transmission UV Cutoff
	@Thickness 0.0200 mm, Wavelength 464 nm	@Thickness 0.000787 in, Wavelength 464 nm	
	0.10	0.10	

Optical Properties	Metric	English	Comments
Reflection Coefficient, Visible (0-1)	@ Thickness 0.0200 mm	@ Thickness 0.000787 in	Solar Reflectivity; ASTM E903-96

Descriptive Properties	Value	Comments
Applications	Advanced Composites	
	Electrical Insulators	
	Industrial Tapes	
	Space Structures	
	Thermal Insulation	
Characteristics	Bonds directly to metals and metal oxides (liquid)	
	Conductive and non-conductive grades	
	Essentially zero coefficient of thermal expansion	
	High heat stability	
Solar Absorptivity	0.2	0.8 mil thickness; ASTM E903-96

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China