

NeXolve UV Blocking Optionox® Polyimide Film/Coating

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

Material Notes:

Highly UV durable with excellent weatherability and stability to ozone. Optinox® films and coatings are highly UV durable and exhibit excellent weathering durability, including very high stability to ozone. Optinox® is available in rolls up to 60" wide, or in low-temperature curing liquids for coating applications. Both the film rolls and liquid coatings are available in three grades, outlined below. Optinox® rolls are provided either as a freestanding film, or permanently bonded to a PET backer. Additional thicknesses are also available upon request. Optinox® liquid curing resins are provided as a two-part curing system. Transparent Clear: UV cutoff at approximately 230 nm for a 2 mm film or coating. Transparent UV Blocking: UV cutoff at approximately 395 nm for a 2 mm film or coating. Reflective White: Reflective White Film. Information Provided by NeXolve Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NeXolve-UV-Blocking-Optionox-Polyimide-FilmCoating.php

Mechanical Properties	Metric	English	Comments
Tensile Strength	41.0 MPa	5950 psi	ASTM D882-02
	@Thickness 0.0500 mm	@Thickness 0.00197 in	
Elongation at Break	95 %	95 %	ASTM D882-02
	@Thickness 0.0500 mm	@Thickness 0.00197 in	
Elongation at Yield	74 %	74 %	ASTM D882-02
	@Thickness 0.0500 mm	@Thickness 0.00197 in	
Modulus of Elasticity	0.960 GPa	139 ksi	ASTM D882-02

Thermal Properties	Metric	English	Comments
CTE, linear	86.0 µm/m-°C	47.8 µin/in-°F	ASTM E831-06
	@Thickness 2.00 mm, Temperature -125 - 20.0 °C	@Thickness 0.0787 in, Temperature -193 - 68.0 °F	
Glass Transition Temp, Tg	29.0 °C	84.2 °F	DSC; ASTM E1356-03

Optical Properties	Metric	English	Comments
Refractive Index	1.45	1.45	Abbe; ASTM D542-00
	@Wavelength 549 nm	@Wavelength 549 nm	
Transmission, Visible	0.86 %	0.86 %	Solar Transmittivity; ASTM E903-96
	@Thickness 0.0500		

Optical Properties	mm Metric	@Thickness 0.00197 in English	Comments
Reflection Coefficient, Visible (0-1)	0.060	0.060	Solar Reflectivity; ASTM E903-96
	@Thickness 0.0500 mm	@Thickness 0.00197 in	

Descriptive Properties	Value	Comments
Applications	Composites Protection	
	Conformal Coatings	
	Corrosion Resistance	
Characteristics	Extreme environment (high UV, ozone) durability	
	Flexible, tough conformal coating	
	High optical clarity	
	Long-term terrestrial weathering protection	
	Low temperature curing	
Solar Absorptivity	0.07	2.0 mil thickness; ASTM E903-96

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