

## NeXolve White Optionox® Polyimide Film

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-White-Optionox-Polyimide-Film.php](http://www.lookpolymers.com/polymer_NeXolve-White-Optionox-Polyimide-Film.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength	48.0 MPa @Thickness 0.0440 mm	6960 psi @Thickness 0.00173 in	ASTM D882-02
Elongation at Break	120 % @Thickness 0.0440 mm	120 % @Thickness 0.00173 in	ASTM D882-02
Elongation at Yield	110 % @Thickness 0.0440 mm	110 % @Thickness 0.00173 in	ASTM D882-02
Modulus of Elasticity	1.30 GPa	189 ksi	ASTM D882-02

Thermal Properties	Metric	English	Comments
CTE, linear	73.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Thickness 1.75 mm, Temperature -125 - 20.0 $^{\circ}\text{C}$	40.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Thickness 0.0689 in, Temperature -193 - 68.0 $^{\circ}\text{F}$	ASTM E831-06
Glass Transition Temp, Tg	30.0 $^{\circ}\text{C}$	86.0 $^{\circ}\text{F}$	DSC; ASTM E1356-03

Optical Properties	Metric	English	Comments
Transmission, Visible	0.16 % @Thickness 0.0440 mm	0.16 % @Thickness 0.00173 in	Solar Transmittivity; ASTM E903-96
Reflection Coefficient, Visible (0-1)	0.74	0.74	Solar Reflectivity; ASTM E903-96

Optical Properties	@Thickness 1.75 mm Metric	@Thickness 0.0689 in English	Comments
Descriptive Properties	Value		Comments
Applications	Composites Protection		
	Conformal Coatings		
	Corrosion Resistance		
Characteristics	Extreme environment (high UV, ozone) durability		
	Flexible, tough conformal coating		
	Long-term terrestrial weathering protection		
	Low temperature curing		
Solar Absorptivity	0.1		1.75 mil thickness; ASTM E903-96

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