

NeXolve Clear 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-Clear-Optionox-Polyimide-FilmCoating.php

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|-----------------------------------|--------------|
| Tensile Strength | 42.0 MPa @Thickness 0.0500 mm | 6090 psi @Thickness 0.00197 in | ASTM D882-02 |
| Elongation at Break | 82 % @Thickness 0.0500 mm | 82 % @Thickness 0.00197 in | ASTM D882-02 |
| Elongation at Yield | 72 % @Thickness 0.0500 mm | 72 % @Thickness 0.00197 in | ASTM D882-02 |
| Modulus of Elasticity | 0.930 GPa | 135 ksi | ASTM D882-02 |

| Thermal Properties | Metric | English | Comments |
|---------------------------|--|--|--------------------|
| CTE, linear | 83.0 µm/m-°C @Thickness 2.00 mm, Temperature -125 - 20.0 °C | 46.1 µin/in-°F @Thickness 0.0787 in, Temperature -193 - 68.0 °F | ASTM E831-06 |
| Glass Transition Temp, Tg | 26.0 °C | 78.8 °F | DSC; ASTM E1356-03 |

| Optical Properties | Metric | English | Comments |
|-----------------------|-----------------------------|----------------------------|------------------------------------|
| Refractive Index | 1.45 @Wavelength 549 nm | 1.45 @Wavelength 549 nm | Abbe; ASTM D542-00 |
| Transmission, Visible | 0.93 % @Thickness 0.0500 | 0.93 % | Solar Transmittivity; ASTM E903-96 |

| Optical Properties | mm Metric | @Thickness 0.00197 in English | Comments |
|---------------------------------------|--------------------------------------|------------------------------------|----------------------------------|
| Reflection Coefficient, Visible (0-1) | 0.070 @Thickness 0.0500 mm | 0.070 @Thickness 0.00197 in | Solar Reflectivity; ASTM E903-96 |

| 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 | 0.002 | 2.0 mil thickness; ASTM E903-96 |

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