

TECHNICAL DATA SHEET

EFIRON[®] Polymer Clad
Series

SPC-355



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A. MATERIAL DESCRIPTION

EFIRON[®] SPC-355 coating is a radiation-curable acrylate useful for polymer cladding making processes. EFIRON[®] SPC-355 coating has suitable glass transition temperature, rapid cure property, non-yellowing, thermal resistance, high oxidative and hydrolytic (moisture) stability, which are required by optical fiber industry applications.

1. CURING CONDITION

Minimum UV dose of EFIRON[®] SPC-355 for complete cure is 1000 mJ/cm² under a nitrogen environment. However, the minimum dosage is heavily dependent upon the thickness of the PC layer.

2. STORAGE

EFIRON[®] SPC-355 polymer cladding coating can polymerize under improper storage conditions. Store materials away from direct sunlight and presence of oxidizing agents and free radicals. Storage temperature range is between 10°C to 30°C.

3. PRECAUTION

EFIRON[®] SPC-355 polymer cladding coating materials can cause skin and eye irritation after contact. Therefore, avoid direct contact with these materials. If contact occurs, immediately rinse affected areas copiously with water.

4. NOTES

The information contained herein is believed to be reliable but is not to be taken as representation, warranty or guarantee and customers are urged to make their own tests.

B. MATERIAL PROPERTIES

1. LIQUID

Viscosity	at 25 °C	5,000 cPs
Density	at 20 °C	1.52 g·cm ⁻³
Refractive Index	at 25°C, 589 nm	1.349
Surface Tension		In Testing

2. CURED

Refractive Index	at 852 nm	1.355
Secant Modulus		
	at 2.5% Strain	30 MPa
Young's Modulus		35 MPa
Tensile Strength at Break		6 MPa
Elongation at Break		20 %
Shrinkage on Cure		<10.0 %

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