

AC FL-06

UV-Curable, Optical Material for Fresnel Lens Applications

Features

- Stable Young's Modulus with temperature
- Excellent adhesion to PMMA and PMMA/PS substrates
- Good flow properties
- High transparency

Description

- UV-Curable Optical Material

APPLICATIONS

Resin for Fresnel Lens replication.

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	500 to 650
Storage (°C)	15 to 25 °C
Shelf life (15 - 25 °C)	6 months
Pot life (15 - 25 °C)	3 months

Cured film

Shrinkage (linear, %) < 0.3

Glass transition temperature (°C, DMA) 40

Shore D 45

Refractive index of cured film (25°C)
 @ 589 nm 1.528

Physical properties tested at 25°C, 50% RH (ASTM D638)

Tensile (MPa)	2.5
Elongation (%)	50
Modulus (MPa)	6.5

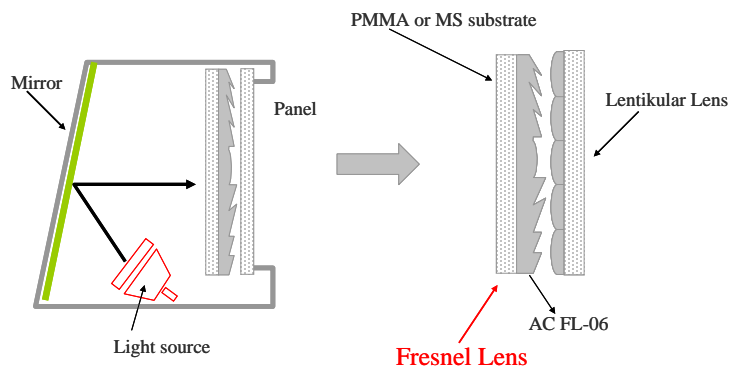
Operating temperature (°C) -40 to 120

UV curing conditions

Flood cure system – UV dose, air (J/cm²) 1.0

* Minimum intensity recommended for Spot lamp system: 500 mW/cm²

** Intensity recommended for Flood lamp system: 49 WPCM or 125 WPI



SAFETY AND HANDLING

The un-cured adhesive can be cleaned from apparatus with isopropyl alcohol (IPA), methyl ethyl ketone (MEK), or commercial alcohol based cleaning solution.

Use caution in handling this material. Avoid direct skin and eye contact. Use only in well ventilated areas. Use protective clothing, **gloves and safety goggles**. Read [Material Safety Data Sheet](#) before handling.

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