Preliminary DATA SHEET

July 31, 2022

RCT-155: Optical Coating

RCT-155-XP1 is a low modulus UV curable coating specially designed for recoating in a mold. The material was optimized for curing by both UV LED and UV Mercury lamps. A typical application is re-coating for optical fibers. The adhesion level was optimized for the ease of release from re-coating molds.

Properties

	Liquid state
RI liquid at 589 nm	1.530
Density, g/cm^3	1.12
Viscosity, cps @ 25°C	2100
Surface tension, dyne/cm	20
color	Clear, yellowish
	Cured state
color	Clear, yellowish
Transparency 450-1600 nm, 300 micron film	99%
RI cured at 589 nm	1.550
RI cured at 1550 nm	1.540
Adhesion to silica, 90° Peel, g/cm	80
Secant Modulus @2.5%	34
Young Modulus, MPa	52
Tensile Strength, MPa	7
Elongation at Break	100
Linear shrinkage, %	2.0

The product is supplied pre-filtered to below 1 micron particles.

Storage

1. Avoid unnecessary exposure to ambient light and moisture.
2. Long term storage should be at ambient conditions of 15-30ºC. Do not refrigerate. The material may show haze below 10ºC. It will clear up upon warming back to ambient conditions.
3. The shelf life is 12 months.

Application

Curing can be achieved by any source of UV at 300-400nm. Typically, a dose of 1000-2000 mJ/cm2 is necessary.

Keep the bottle closed in all times when not in use. The material is sensitive to light.

Safety: Refer to the SDS

Note: The above information is believed to be reliable, but it is not to be taken as a representation, warrantee or guarantee. Customers should perform their own QC, QA and evaluation tests.

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