MY POLYMERS
The low refractive index company

DATA SHEET

RCT-136 : Optical Coating / Adhesive Optimized for Recoating

RCT-136 is a low refractive index UV curable coating/adhesive. It includes MY Polymer's proprietary adhesion promoter, that improves its adhesion, especially under wet conditions. RCT-136 was optimized for re-coating a stripped optical fiber that was originally produced with our Primary Coating OF-136. The material index was designed to perfectly match OF-136.
RCT-136 is a far better recoating material, compared to OF-136. Its adhesion is 2 times higher and its modulus is 2 times lower, compared to OF-136. Lower modulus means Higher Flexibility. The combination of these 2 properties improve endurance under thermal cycling and thermal shocks. The material has longer shelf life compared to OF-136.

Properties

	Liquid state
RI liquid at 589 nm	1.359
Density, g/cm^3	1.56
Viscosity, cps @ 25°C	1700
	Cured state
RI cured at 589 nm	1.369
RI cured at 950 nm	1.363
Adhesion to glass, 90° Peel, g/cm	195
Elastic modulus, MPa	43
Tensile Strength, MPa	5.4
Elongation at Break, %	56
Hardness, Shore A	70

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 10-30ºC.
3. The coating is supplied in glass bottles. Keep container closed to avoid moisture penetration.
4. The shelf life is 9 months.

Application

Curing can be achieved by any source of UV at 300-400nm. Typically, a dose of 1000-2000 mJ/cm2 is necessary.
To prevent tackiness on exposed surfaces, it is recommended to cure in an inert atmosphere (e.g. under nitrogen). There is no need for inert atmosphere when curing between two layers or in a mold (more on inert curing in the Technical Support page on our web site).
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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