

DATA SHEET

OF-136-G2: Optical Fiber Primary Coating

OF-136-G2 is a new improved version of the original OF-136 optical fiber coating. The major improvements include better endurance under wet conditions (such as 85C hot water immersion) and better thermal stability. These improvements are expected to enable higher reliability and higher temperature operation, that can be beneficial for high power fiber lasers.

Properties

	Liquid state
RI liquid at 589 nm	1.360
RI liquid at 950 nm	1.353
Density, g/cm ³	1.58
Viscosity, cps @ 25°C	4200
	Cured state
RI cured at 589 nm	1.368
RI cured at 950 nm	1.362
Adhesion 90° Peel, g/cm	60
Elastic modulus, MPa	90
Tensile Strength, MPa	8
Elongation at Break, %	30

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 10-30°C.
3. The coating is supplied in glass bottles. Keep container closed to avoid moisture penetration.
4. The shelf life is 6 months.

Application

OF-136-G2 is intended to be used in optical fiber drawing towers. The UV curing is done under nitrogen. Typically, a dose of 1000-2000 mJ/cm² is necessary. Any UV source in the range 300-400 nm can be used. When properly cured under nitrogen, the surface should be non-tacky.

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

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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