World's first and best polymer clad coating used by major fiber companies.

LAP Series : Low Refractive Coatings for Specialty Optical Fibers (Legacy Products w/ over 15 years field proven)

Product Application

- World’s first UV curable low refractive index coatings for special optical fibers
- Medium power fiber laser applications
- Polymer clad optical fibers and capillary optical fibers

Technology Description

- Fluorine chemistry is used to create a low refractive index, as low as 1.350
- Urethane chemistry is used to increase viscosity suitable for fiber drawing processes
- Methacrylate and acrylate functionality are incorporated for UV curing

Product Certifications

- ROHS compliance
- USP Class 6 certification issued by NAMSA

PRODUCTS	PC363	PC370	PC373	PC375	PC409	PC404F	PC414
Vicosity at 25°C (cPs) ± 10 ~ 15%	6,000	7,000	5,800	5,700	1,850	4,900	8,000
Liquid Refractive Index ± 0.005 (589nm)	1.358	1.370	1.373	1.382	1.395	1.404	1.442
Cured Film Refractive Index ± 0.005 (852nm)	1.363	1.370	1.373	1.382	1.395	1.404	1.414
Tensile Strengtd ± 0.1 (kgf/mm2)	0.53	0.79	0.95	1.03	1.38	1.68	1.74
Elongation ±5 (%)	28.0	58.5	37.6	73.0	25.7	13.0	26.5
Tg of Cured Film ±5.0 (°C)	23.0	57.5	71.2	74.0	70.3	83.0	81.4
Transmittance (600nm~1,000nm)	> 92%						