

UV-Transparent Hard Coating Single Mode Fiber Product Information

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FEATURES

Thermally cured UV-Transparent coating. The coating may be applied on any fiber as a single coating. FBG's can be produced from this fiber without coating-stripping, thereby preserving the strength of FBGs.

APPLICATION

FBG mass production
Splice-free FBG chain

SPECIFICATIONS

Product Name

Cut-off Wavelength
Attenuation @1310nm
 @1550nm

Numerical Aperture
Mode Field Diameter @1310nm
(Petermann II) @1550nm
Cladding Diameter
Coating Diameter
Cladding/ Coating Concentricity
Length
Proof Test Level

UVTC-2-SMF

1150 ~ 1330 nm
≤ 0.4 dB/km
≤ 0.3 dB/km
0.12 ± 0.01
8.8 ~ 9.8 nm
9.5 ~ 11.5 nm
125 ± 1 μm
260 ± 10 μm
< 12 μm
Customize
100 kpsi

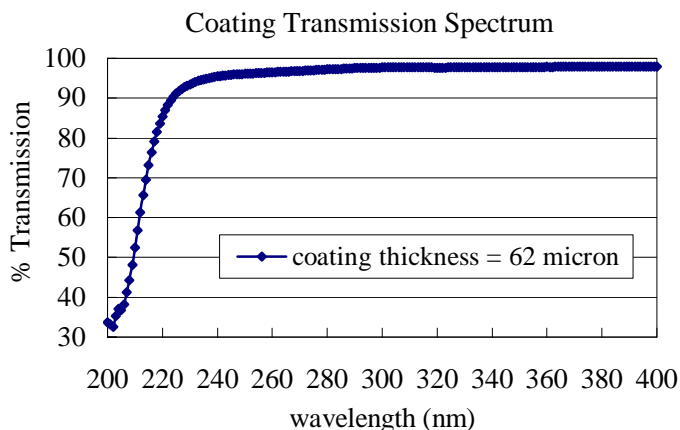
CURED PROPERTIES OF COATING MATERIAL

Characteristics

Hardness, Shore A Durometer
Tensile Strength
Elongation
Useful Temperature Range
Adhesive Strength
Refractive Index
Transmission @ 244nm / 248nm / 325nm, t=62μm

Specified Values

80
0.8 Mpa
110%
-50°C to +250°C
7.35 Mpa
1.407
95.78% / 96.01% / 97.68%



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