

## Optical Fiber Primary Coatings

MY Polymers OF products are primary coatings for specialty optical fibers. Distinguished by their carefully balanced combination of high adhesion to the core, and high modulus, these UV cured coatings are setting new standards.

Our **best-selling OF-136** (Index=1.36) is used by the majority of specialty optical fibers manufacturers. This product, like quite a few other members of the OF family, includes a proprietary adhesion promoter that dramatically improves adhesion under wet conditions. Our adhesion promoter was designed for high stability and long shelf life.



	RI at 589 nm	RI at 950 nm	Adhesion gr/cm	Elastic Modulus MPa	Viscosity CPS	Tensile Strength MPa	Elongation At Break %	Hardness Shore	Shelf Life Months
OF-133-V3	1.336	1.331	11	4	2400	1.3	50	60A	6
OF-134-V2	1.346	1.341	28	17	2500	3.2	38	86A	6
OF-135	1.357	1.352	45	30	2400	5.0	40	88A	6
OF-136	1.369	1.363	64	85	2200	8.0	50	95A	6
OF-136-FC	1.369	1.363	70	60	4000	5.6	50	95A	6
OF-136-N	1.369	1.363	50	55	3200	6.0	52	95A	12
OF-137	1.372	1.368	65	120	3300	8.0	48	95A	6
OF-1375-A	1.377	1.372	70	155	3700	8.3	54	95A	6
OF-1375-N	1.379	1.375	65	108	4200	9.0	42	95A	12
OF-138	1.384	1.379	120	230	3300	10.0	62	52D	6
OF-138-N	1.388	1.382	60	250	4000	12.0	62	60D	12
OF-139-N	1.393	1.388	88	350	3500	11.5	40	60D	12
OF-140-N	1.407	1.401	170	560	3200	17	32	65D	12
OF-141-N	1.414	1.409	350	530	4000	17	45	68D	12
OF-142-N	1.425	1.418	500	650	4000	18	20	70D	12
OF-143-N	1.435	1.428	700	800	3500	26	8	72D	12
OF-144-N	1.447	1.440	770	900	3000	25	5	73D	12
OF-145-N	1.455	1.448	800	1100	3000	30	13	75D	12
OF-146-N	1.467	1.460	>1500	1600	3800	37	3	80D	12
OF-HC-14 Hard Coat	1.468	1.462	na	1400	3700	40	3.5	82D	12

The disruptive OF-133-V3 (index 1.33) enables a breakthrough **Numerical Aperture of 0.6**. The high NA can significantly increase the efficiency of fiber lasers and optical amplifiers. Pioneering companies are already at work, exploring the advantages of this exceptional primary coating. Its close relative, OF-134-V2, couples a low index of 1.34 with a relatively high modulus of 20 MPa. The higher modulus, compared to OF-133, is thought by some customers to enable a smoother transition.

For mechanically demanding applications, customers choose the high modulus offered by OF-138 (index 1.38), and OF-140-N. These tough coatings are preferred for fibers that are subjected to high mechanical stresses.

OF-HC-14 is our only secondary hard coat. The adhesion of OF-HC-14 to our primary low index coatings is about an order of magnitude higher, compared to similar commercially available hard coats.



#### **About MY Polymers Ltd.**

*Distinguished by its total focus on low refractive index materials, **MY Polymers** is a leader in this field.*

**MY Polymers** has been active in the field of Low Refractive Index Optical Coatings, Adhesives and Polymers since 2004. The company develops, produces, and sells primary coatings for optical fibers, recoating materials, optical adhesives, bio-photonic materials, anti-reflective coatings, and various other low index polymers, coatings and adhesives.

**MY Polymers** is ISO certified. We serve the global Photonics and Electronic Display industries, with customers in the North America, Asia and Europe.

**MY Polymers Ltd. - The Low Refractive Index Company**

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