

Products and Company Overview

Company Overview

Distinguished by its total focus on low refractive index materials, MY Polymers is a leader in this field. We have been active in the field of Low Refractive Index Optical Coatings Adhesives and Polymers since 2004.

Our products span the whole range of Refractive Index from 1.30 to 1.50. Our wide selection of UV Cured products is complemented by Moisture Cured, Pressure Sensitive, Heat Cured, and, in the near term, Double Cured products.

The company develops, produces, and sells Primary Coatings for specialty optical fibers, Recoating materials, Liquid OCAs for Electronic Displays, Optical adhesives, Bio-photonics materials, Anti-reflective coatings, and various other low index polymers, coatings and adhesives. Additional, emerging, applications include: Backside Anti-reflective coatings, Lighting Systems, Security Printing, and multiple applications in research institutes and universities around the world.

MY Polymers is ISO certified. We serve the global photonics and electronic display industries, with customers in the North America, Asia, and Europe. The company is located in Weizmann Science Park, Ness-Ziona in close proximity to HP, Applied Materials, and the Weizmann Institute of Science.

Following is an overview of our major product categories.

The MY Product Line: Recoating, Adhesives; Index = 1.30 to 1.50

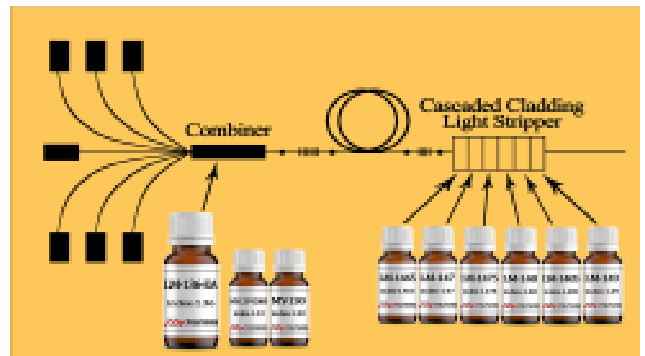
The new LM-136-EA recoating material was designed as a matching re-coating for stripped optical fibers that have a 1.36 index primary coating. LM-136-EA has a remarkably high adhesion to the stripped core, and low modulus that reduces stress during thermal cycling.

MY-130, MY-133-V2000 and MY-133-EA do wonders for the reliability of combiners.

LM-146, LM-147, LM-148 and similar products are new, Low Modulus versions of our legacy MY-146, MY-147 and MY-148. A typical use is recoating in Cascaded Cladding Power Strippers.

The following is a partial table. Refer to our website for a full table.

Product	RI @ 950nm	Adhesion g/cm	Modulus MPa	Viscosity CPS
MY-130	1.303	low	<1	120
MY-133-V2000	1.329	9	5.2	2900
LM-136-EA	1.363	190	15	1700
LM-146	1.460	1900	35	1400
LM-147	1.470	1900	31	2150
LM-148	1.480	500	42	1300



The OF Product Line: Primary Coatings for Optical fibers; Index = 1.33 - 1.46

Our OF primary coatings are used in optical fiber drawing towers. Our bestselling OF-136 (RI=1.36) is used by the majority of the leading manufacturers of Specialty Optical Fibers. It is complemented by the remarkable OF-133 (RI=1.33, NA=0.6), OF-138 (RI=1.38, high Modulus) and many other products.

These, and most of the OF products include our proprietary adhesion promoter. It provides improved adhesion to the silica core, especially under wet conditions, while enabling relatively long shelf life.

The following is a partial table. Refer to our website for a full table.

Product	RI @ 950nm	Adhesion g/cm	Modulus MPa	Viscosity CPS
OF-133-V3	1.331	11	4	2400
OF-136	1.363	64	85	2200
OF-138	1.379	120	230	3300
OF-140-N	1.401	170	560	3200



The new GK Lamination Adhesives: Index = 1.33 to 1.35

Distinguished by its unique combination of low refractive index (1.33) AND high bond strength, GK-731 is intended to be used as an optical lamination adhesive in various applications in electronic displays.



Product	RI @ 589nm	Peel Adhesion gr/cm	Lap Shear gr/cm	Viscosity CPS
GK-731	1.337	700	2800	2000
GK-731-S1	1.335	220	na	15000@90C
GK-751	1.357	440	2800	2000

The Moisture Cured Coatings

The MC products are cured by the moisture in the air. There is no need for UV curing. These products are useful for thin coatings. A typical application is SPR biosensors.

The following is a partial table. Refer to our website for a full table.

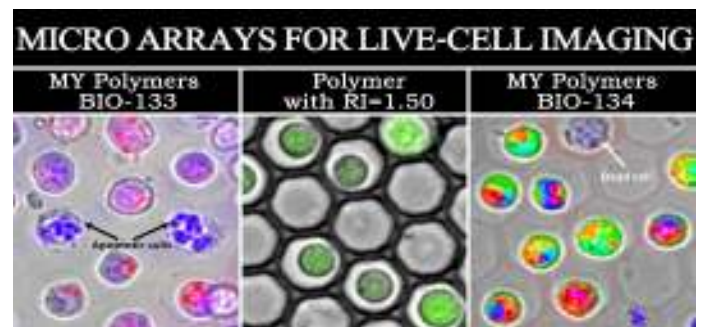
Product	RI @ 589nm	RI @ 950nm	Hardness	Viscosity CPS
MY-131-MC	1.312	1.308	v.soft	120
MY-133-MC	1.330	1.325	<6B	400
AR-138	1.389	1.384	1H	500
AR-139	1.395	1.391	1H	500



Bio-Photonic Materials

Our BIO-133 and BIO-134 are non-fluorescent and have reduced cytotoxicity, compared to our other products. These materials enable high resolution microscope imaging over 3D structures, such as microarrays or micro pillars.

Product	RI @ 589nm	RI @ 950nm	Elastic Modulus MPa	Viscosity CPS
BIO-133	1.334	1.329	5	2200
BIO-134	1.342	1.337	5.6	5500



Custom Products

MY Polymers provides customized products. It may be:

- A different Refractive Index
- Higher or lower viscosity
- Higher Modulus (harder) or lower (softer)
- Higher or lower bond strength
- A different cure method or schedule
- Other special properties

For a detailed discussion, go to the Contact Us page in our website and send us a message.



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