MY POLYMERS
The low refractive index company

Products and Company Overview

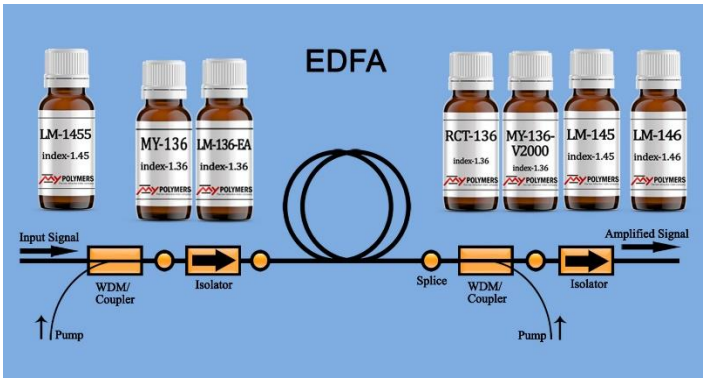
Distinguished by its total focus on low refractive index materials, MY Polymers is a leader in this field. We have been active in the field of Low Refractive Index Optical Coatings, Adhesives and Polymers since 2004.
Our products span the whole range of Refractive Index from 1.30 to 1.50. Our wide selection of UV Cured products is complemented by Moisture Cured, Pressure Sensitive, Heat Cured, and 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-photonic materials, and Anti-reflective coatings. 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, optical communications and electronic display industries, with customers in North America, Asia, and Europe. The company is located in Weizmann Science Park, Ness-Ziona in close proximity to the Weizmann Institute of Science.
Following is an overview of our major product categories.

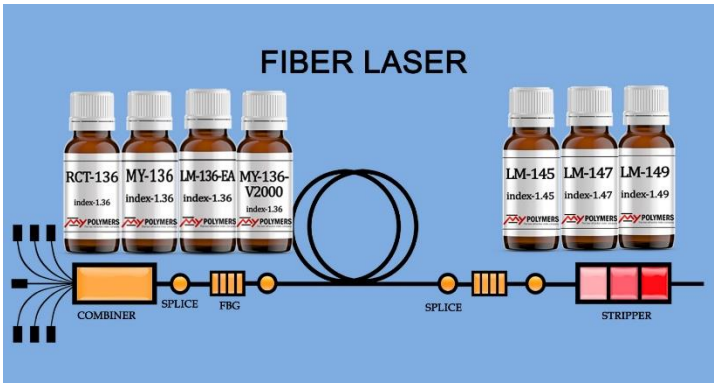
The LM and MY Product Line: Recoating, Adhesives; Index = 1.30 to 1.50

MY Polymers offers the industry's widest selection of dedicated re-coating materials, which were optimized specifically for re-coating applications.
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 remarkably high adhesion to the stripped core, and low modulus that reduces stress during thermal cycling. It complements our established line of re-coatings with an index of 1.36, which include MY-136-V2000 and MY-136.

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

MY-130, MY-133-V2000 and MY-133-EA improve 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 table above is a partial table of some of our re-coating materials. Refer to our website for a full table.





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

Our OF Optical Fiber coatings are used in optical fiber drawing towers. Our 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), OF-140-N, 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 (compared to commercially available adhesion promoters).
The table above 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

LAM-135 Low Index lamination adhesive

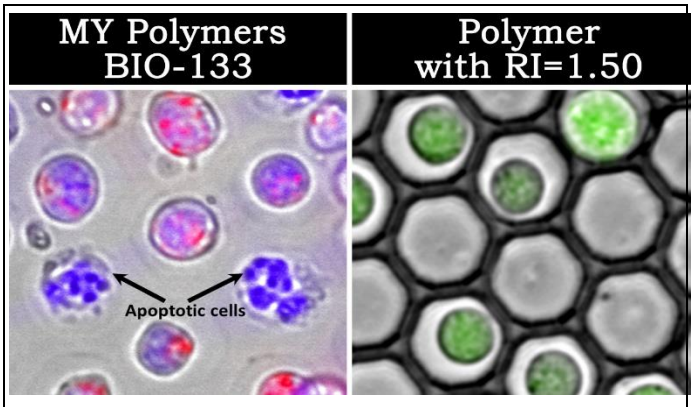
The new LAM-135 lamination adhesive has a unique combination of low index (1.35) and very strong adhesion to plastic films (PET, PC) to PMMA, glasses and metal surfaces.
The material is pure UV cured material, with no solvents, enabling simple application.
The material has various applications in both OLED and LCD displays, such as improved directionality, attaching adjacent films to a PMMA light guide, attaching optical touch screens to the OLED or LCD module, etc.

Product	RI @ 589nm	Peel Adhesion gr/cm	Lap Shear gr/cm	Viscosity CPS
LAM-135	1.352	800	NA	1500-4500

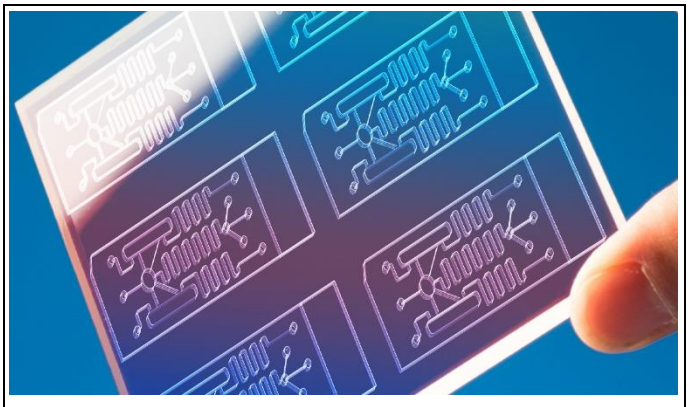
Bio-Photonic Materials

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 microfluidic devices, microarrays or micropillars.
In some applications, customers prefer to use MY-133-V2000 or MY-134 that have a longer shelf life.
In other applications, when thin coatings are required (e.g. microscopy calibration slides, or SPR bio-sensors) customers prefer to use MY-133-MC (Index=1.33) for its simplicity of use as a coating.

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
MY-133-V2000	1.333	1.329	5.2	2900
MY-133-MC	1.330	1.325	<6B	400



Microchambers, fabricated from BIO-133 enable improve resolution in live cell imaging.



Microfluidic devices, fabricated from MY-133-V2000 reduce artifacts in fluorescence and quantitative phase imaging.

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