

### Myriant Myribond™ Adhesion Promoting Resin

For thermoplastic, thermoset, and UV cure systems

#### DERIVED FROM BIO-BASED SUCCINIC ACID

Myriant Myribond™ adhesion promoting resin is made from Myriant renewable bio-succinic acid and is a cost effective resin for use in coatings systems. Myribond™ offers enhanced adhesion to both low-energy and high energy substrates. Myribond™ offers a combination of resilience, flexibility and yellowing resistance coupled with adhesion and bears no price premium.

#### Applications

**UV Cure:** Myribond™ is an excellent choice for adhesion in UV systems. It can be used as the main resin system or in combination with other traditional (meth)acrylate systems. Myribond™ will cure with UV irradiation.

**Thermoset:** Myribond™ can be added to a curable thermoset system as it will cross-link into a free-radical matrix, especially with the addition of methacrylate monomers and or peroxide catalysts. Myribond™ is stable at room temperature even with the addition of a peroxide.

**Urethane:** Myribond™ is hydroxyl functional and can therefore be used in the synthesis of urethane oligomers as well as a crosslinking site for isocyanates in 2K systems. The hydroxyl number and functionality can also be altered for a specific application. In addition, the acid value can be minimized in order to mitigate carbon dioxide formation.

**Epoxy:** Myribond™ can also be made acid or amine functional for inclusion into thermoset epoxies.

#### Typical Properties

Color	2 Gardner
Viscosity	5000 cPs (25°C)
Specific Gravity	1.1

#### UV formulation with Myribond™

While by no means exhaustive, the following formulations have been proven effective in adhesion to difficult substrates:

##### Blend Composition

	Myribond™ 	IBOA	2-EHA	TEGDMA	TMPTMA	4 func. monomer	PI	peroxide (phr)
1	35%	38%				22%	5%	
2	35%		38%			22%	5%	
3	70%				30%		5%	2
4	80%			15%			5%	2

IBOA = Isobornyl acrylate;

2-EHA = 2-ethylhexyl acrylate;

TEGDMA = Triethyleneglycol-dimethacrylate;

TMPTMA = Trimethylolpropane Trimethacrylate

PI = photoinitiator

### Tape Adhesion

	Polyester	Polypropylene	Polyethylene	Glass (crosshatch)	Aluminum (crosshatch)	Steel (crosshatch)
1	pass	Pass	pass	fail		fail
2	pass	fail, 50%	pass	fail		fail (80%)
3	n/a	Pass	fail	pass (90%)		pass
4					pass, (98%)	pass, 100%

### Safety and Regulatory

Myriant Myribond™ resin is not yet listed on the U.S. TSCA inventory, the Canadian DSL, REACH, the Korean ECL, or the Australian AICS. While it is presumed to be polymer exempt and non-toxic, the resin should be used for research and development only.

When using this product, the information and advice given in the Material Safety Data Sheet should be observed. Normal precautions for the handling of chemicals, including wearing proper personal protective equipment, should be followed at all times. The Material Safety Data Sheet is available on request.

### Packaging

Samples are available in 0.5L bottles.

### Handling & Storage

Store in a tightly closed container in a cool, well-ventilated area away from sources of heat or ignition.

### Contact Information

Please contact Myriant at [productinfo@myriant.com](mailto:productinfo@myriant.com), or call 855-MYRIANT (697-4268) for more information.

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LOWER CARBON FOOTPRINT



NO GREEN PRICE PREMIUM



NON-FOOD BASED



HIGHER PERFORMANCE

45 Cummings Park, Woburn, MA 01801  
Tel: 617-657-5200 Fax 617-657-5210 Web: [www.myriant.com](http://www.myriant.com)

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