EBECRYL® 15

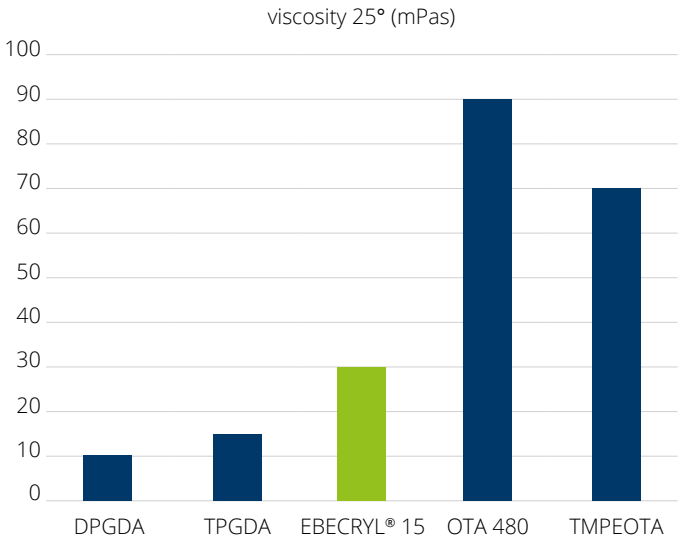
Low Viscosity, Bio-Based Diluting Acrylate With 67% Bio Carbon Content

In the ongoing quest for more sustainable and high-performance solutions in the polymer industry, a new player is emerging: the low viscosity, bio-based diluting acrylate, offering a myriad of benefits while preserving the environment.

Key Features

- **High Renewable Carbon Content:** With a composition containing 67% carbon derived from biological sources, this acrylate represents a significant step towards a circular economy and reducing our reliance on fossil resources.
- **Low Viscosity:** This is a low viscosity polymeric diluent, making it unique among bio-based solutions in the market. This characteristic allows for easy incorporation into various formulations without compromising final performance. Its diluting power is comparable with a well know diluent such as TPGDA.
- **Flexibility and toughness:** As a diluent, this acrylate decreases the brittleness of your UV/EB coating compared to conventional monomers like DPGDA or TPGDA.
- **High Reactivity:** Its high reactivity makes it an ideal choice to boost the biobased content of a formulation without losing in curing efficiency, thereby helping to reduce production times and associated costs.
- **Low Yellowing after UV Curing:** The advanced formulation of this material minimizes the yellowing often associated with UV curing processes, preserving the aesthetic appearance of the final products.
- **Excellent exterior durability:** Formulated products containing EBECRYL® 15 show no film defects or gloss loss after 4000 hours Xenon test, matching the performance of HDDA, best-in class monomer for exterior.

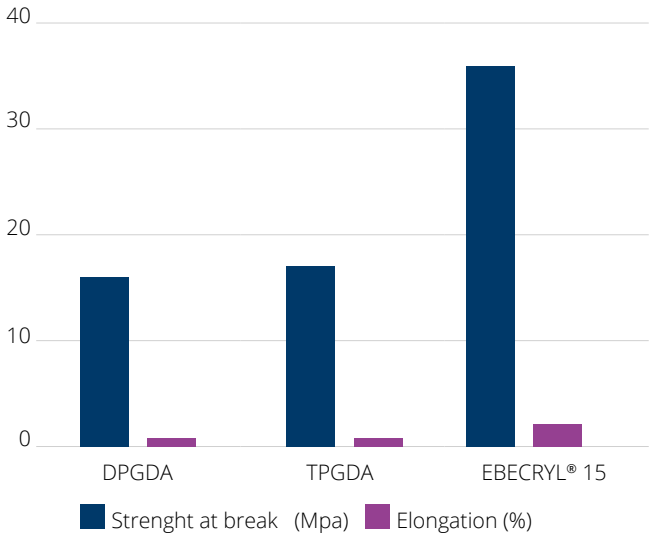
Viscosity - EBECRYL® 15

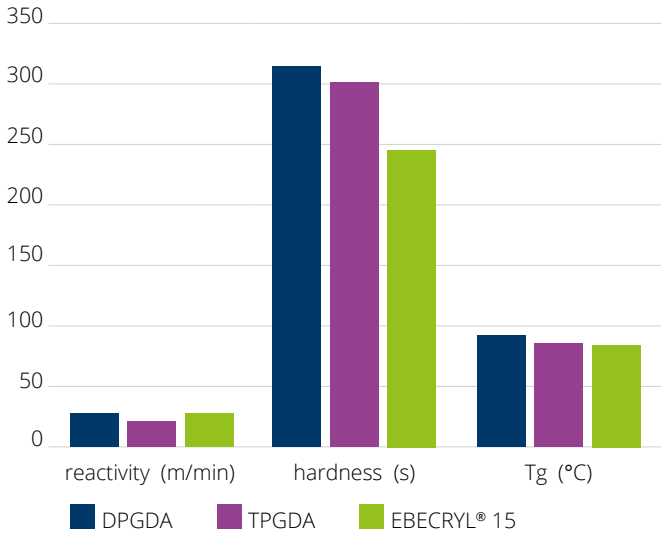


EBECRYL® 15 is a clear liquid with low color (100 apha)

Average molecular weight	: 360 g/mole
Functionality	: 2
Density 23°C	: 1.05 g/cm3
Log POW	: 2.23 (TPGDA : 1.84)
BB Carbon	: 67%

Properties : EBECRYL® 6000/EBECRYL® 15 (65/35) with 5p CPK photoinitiator





This versatile diluting acrylate finds applications in various fields, including: environmentally friendly coatings and paints for industrial wood and printing inks, adhesives with low environmental impact, renewable and durable composites.

In summary, the low viscosity, bio-based diluting acrylate represents a significant advancement in the field of sustainable and high-performance materials. With its unique characteristics, EBECRYL® 15 is a "booster-of-choice" for the better carbon content of 100% UV/EB formulations while meeting the sustainability and performance requirements of modern industries. Therefore, its adoption can contribute significantly to the transition towards a greener and more efficient economy.

For additional details on this product and starting-point formulations, please reach out to our technical experts:

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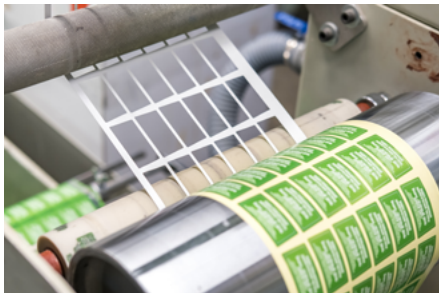
EBECRYL® 367

Stick With Confidence, Even On Tough Surfaces
For Overprint Varnishes I Flexo & Inkjet Inks Applications

Adhesion promotor
Plastic film continues to drive innovation in graphics, particularly in flexible packaging and labeling. UV-curable flexo inks offer superior productivity and enhanced resistance compared to traditional solvent- or water-based thermal cure systems.

EBECRYL® 367 is a high-performance adhesion promotor designed specifically for corona-treated substrates. It excels on corona-treated polypropylene, where UV-curable flexo inks often face adhesion challenges.
With a molecular weight over 1000 Dalton, EBECRYL® 367 maintains a low viscosity, reducing the need for additional low molecular weight monomers to achieve target formulation properties. This makes it an ideal choice for formulators seeking performance, efficiency, and compliance in one solution.



Value Proposition

- Outstanding adhesion on corona-treated substrates, especially on polypropylene
- Optimized for white UV flexo inks, ideal for shrink sleeve applications
- Versatile performance in clear primer and overprint varnish (OPV) formulations
- Low color and low odor for cleaner, more pleasant processing
- German & Swiss ink ordinance compliant for safe use in sensitive packaging applications

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Characteristics	Typical value
Appearance	Clear liquid
Viscosity (@25°C, mPa.s)	~2500
Density (@20°C, g/ml)	1.1
Molecular weight (theoretical)	~2100 D

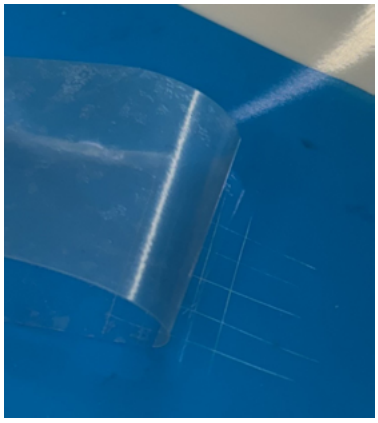
Note: **EBECRYL® 367** is **hygroscopic** in nature and should be protected from humidity.

White flexo for adhesion on Polypropylene

Formulation:

Product	Reference	Ink 1	Ink 2
EBECRYL® 45	36.0	26.0	16.0
EBECRYL® 85	15.0	15.0	15.0
EBECRYL® 895	5.0	5.0	5.0
EBECRYL® 331	0.5	0.5	0.5
TPO	3.5	3.5	3.5
EBECRYL® 367	-	10.0	20.0
TiO_2	40.0	40.0	40.0
	100.0	100.0	100.0

BOPP 1 to 4: commercial BOPP (Biaxially-Oriented Polypropylene) used in packaging



Adhesion results:

Corona-treated film // film thickness 2.5 – 3 g/m² // UV curing 40 mJ/cm²

Product	Reference	Ink 1	Ink 2
BOPP 1	No adhesion	50% adhesion	Adhesion ok
BOPP 2	No adhesion	50% adhesion	Adhesion ok
BOPP 3	No adhesion	50% adhesion	Adhesion ok
BOPP 4	No adhesion	Adhesion ok	Adhesion ok

For further details on this product and starting-point formulations, please reach out to our technical experts.

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EBECRYL® 367 is available to customers globally.