



FEATURED PRODUCTS

EBECRYL® 130

Energy Curable Difunctional Reactive Diluent for Improved Adhesion and Hardness

EBECRYL 130 is an alicyclic diacrylate diluent. The alicyclic structure of **EBECRYL 130** offers a unique blend of hardness, toughness and resiliency coupled with improved adhesion properties on various substrates. Formulations containing **EBECRYL 130** have demonstrated improved hardness, increased barrier properties and higher Tg.

KEY FEATURES & PERFORMANCE (typical properties-not specifications)	APPEARANCE	VISCOSITY cP at 25°C	FUNCTIONALITY, theoretical	COLOR, Gardner	TENSILE, psi	ELONGATION, %	MODULUS, psi
<ul style="list-style-type: none"> • Good adhesion • Good hardness • Increase barrier properties 	Clear liquid	160	2	5	5000	2.0	300,000

Highlights

Enhanced adhesion: The alicyclic structure of **EBECRYL 130** reduces the amount of shrinkage upon cure: ~6% volumetric shrinkage versus 14% average shrinkage for typical difunctional reactive diluents. This reduction in shrinkage can improve adhesion to various substrates. The table compares the volumetric shrinkage of **EBECRYL 130** with other common reactive diluents.

Film properties: Films of **EBECRYL 130** exhibit good hardness, stain resistance, abrasion, and chemical resistance.

Reactive Diluent	Functionality	Volumetric Shrinkage, %
EBECRYL 130	2	5.9
DPGDA	2	13.0
HDODA	2	19.0
TRPGDA	2	18.1
IBOA	1	5.2
ODA	1	8.3
EBECRYL 110	1	6.8

Starting Point Formulation

Adhesion to Plastic	%
EBECRYL 745	49.0
EBECRYL 130	49.0
ADDITOL® CPK	2.0

Barrier Properties	%
EBECRYL 8405	58.0
EBECRYL 130	20.0
HDODA	20.0
ADDITOL CPK	2.0

EBECRYL 130 has demonstrated improved adhesion to the substrates in the following table.

Adhesion to Plastic & Metal Substrates (5B adhesion, ASTM 3359, 610 tape)		
Polycarbonate	PVC (sheet)	Rigid Vinyl
Cold Rolled Steel (CRS)	Aluminum	Polished Steel

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