

EBECRYL[®] 5500 bioligomer

**Bio-based
Glycerol Derivative Triacrylate**

- ❖ **EBECRYL 5500 bioligomer allows coating and ink formulators to use a monomer which increases the renewable content of their final products and market these more green/renewable to meet printers and brand owners increasing requirements regarding renewable % and become more sustainable**

- **EBECRYL 5500 bioligomer is a bio-based glycerol derivative triacrylate**
- **Bio-based components derived from renewable resources**
- **EBECRYL 5500 bioligomer offers performance similar to standard triacrylate reactive diluents such as:**
 - **OTA-480 (Propoxylated glycerol triacrylate)**
 - **TMPEOTA, (Ethoxylated trimethylolpropane triacrylate)**
 - **TMPTA (Trimethylolpropane triacrylate)**

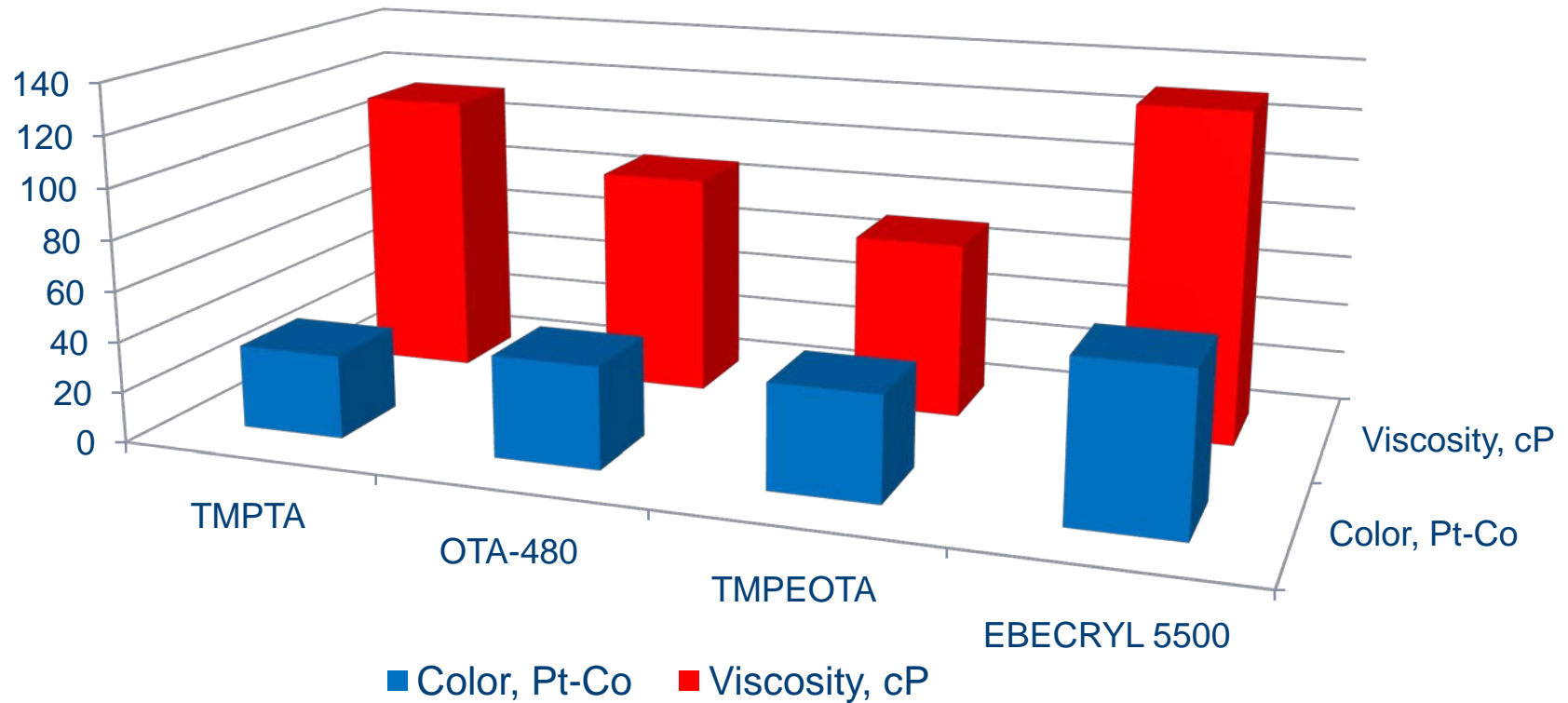
Key Benefits

- ✓ Renewable content of 23%
- ✓ Low color
- ✓ Low viscosity
- ✓ Efficient viscosity reduction of oligomers
- ✓ Imparts good solvent resistance to cured coatings
- ✓ Good resin compatibility

Typical Values

Viscosity at 25°C	130 cP
Color	62 Pt-Co
Density, 25°C	1.07 g/ml
Acid value	1.0 mg KOH/g
Residual solvent	<0.001 %
Residual water	0.01 %

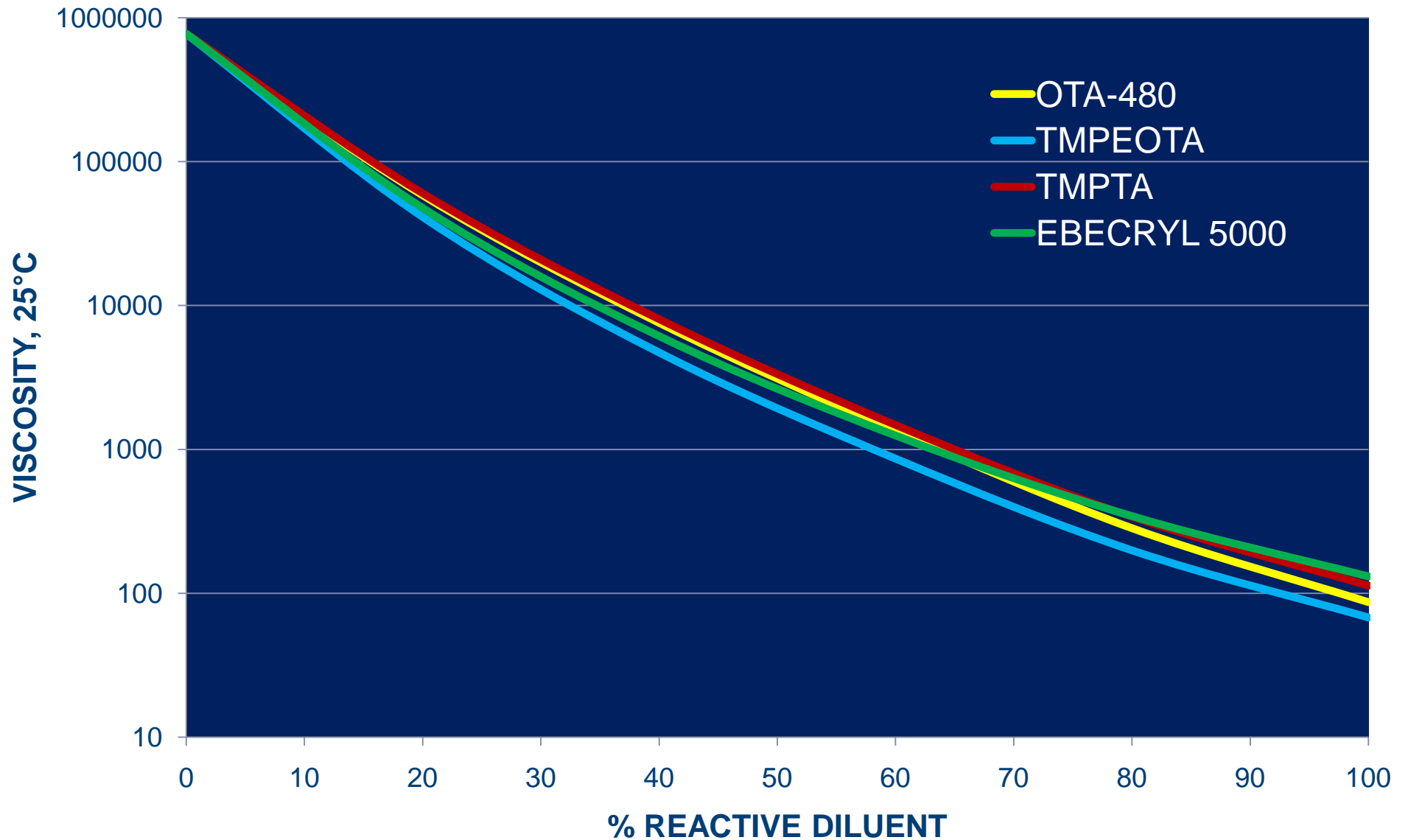
Color and Viscosity



Relative Water Solubility (% concentration in water)

	%
EBECRYL 5500	2.0
TMPEOTA	2.0
OTA-480	0.5
TMPTA	0.5

Viscosity Reduction of EBECRYL 3720



Coating Reactivity and Solvent Resistance

Component	%			
	A	B	C	D
EBECRYL [®] 3720	20	20	20	20
EBECRYL 5500	70			
TMPEOTA		70		
OTA-480			70	
TMPTA				70
ADDITOL [®] BCPK	5	5	5	5
EBECRYL P115	5	5	5	5
Tack free, m/min	20	20	20	20
Mar free, m/min	8	10	12	12
Acetone resistance, dr ⁽¹⁾ at 6 m/min	>100	>100	>100	>100

- 10 μ coatings on clay-coated paper stock UV cured using a microwave powered 120 w/cm lamp

(1) double rubs

- **Combined with the EBECRYL 5000 Series bioligomers, EBECRYL 5500 bioligomer provides the ability to formulate energy curable coatings and inks with significant bio-based renewable content.**
- **EBECRYL 5500 bioligomer is a bio-based alternative to standard triacrylate reactive diluents derived from petroleum-based feed stocks.**