

Energy Curable Urethane Acrylate Nanocomposite for Hardcoats on Plastics EBECRYL® 8311

EBECRYL® 8311 is an aliphatic urethane acrylate nanocomposite that offers excellent compatibility and stability with many acrylate oligomers and diluents. Formulations employing EBECRYL 8311 exhibit outstanding hardness and abrasion resistance coupled with good outdoor durability.

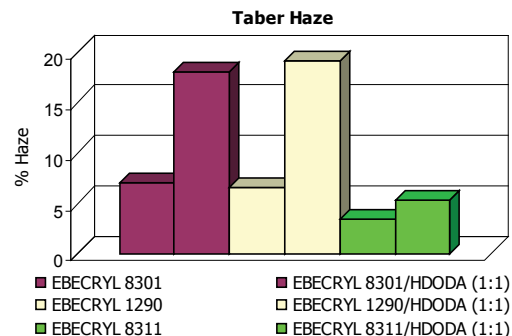
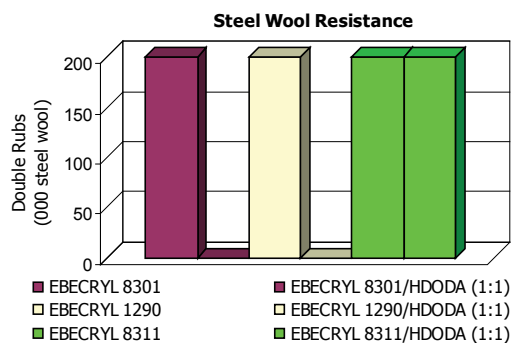
Key Features & Performance (Typical Properties-Not Specifications)	Appearance	Viscosity, cP at 25°C	Solids Content, %	Color, Gardner	Tensile, psi	Elongation, %	Modulus, psi
<ul style="list-style-type: none"> • Good compatibility and stability • Excellent abrasion resistance • Excellent exterior durability • Low haze development • Good chemical resistance 	Clear liquid	9500	100	2	5200	2.0	500,000

Highlights

Enhanced hardness: Coatings of EBECRYL 8311 has outstanding surface hardness that is maintained after dilution with lower functional reactive diluent.

Film properties: Films of EBECRYL 8311 exhibit low haze development after abrasion and those properties are maintained after dilution with a lower functionality reactive diluent.

Starting Point Formulation on Plastic	
	%
EBECRYL 8311	50.0
HDODA	36.0
TMPTA	10.0
ADDITOL® CPK	4.0



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