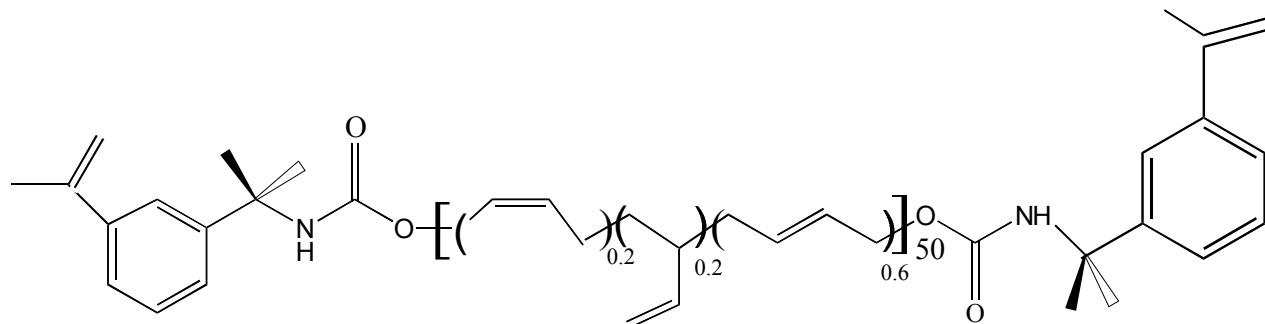


Poly bd[®] R45VT Resin Vinyl Functional Polybutadiene

Poly bd[®] R45VT resin is a vinyl functional, polybutadiene urethane oligomer that can be cured

with free radical initiation using organic peroxides or UV mechanisms. This resin is suitable for reenterable potting compounds, electrical varnish modification or temporary, protective coatings.



Typical Product Attributes

Viscosity, 25 °C	15,500 mPa·S (cP)
Mn	2740
Mw	6685
Polydispersity	2.45
Color, Gardner	1-2
Water, wt. %	<0.1
Density, 25 °C	0.923g/cc (7.62/gal)

Performance Characteristics – Cure with Dicumyl Peroxide

Tensile Strength	0.7 Mpa
Elongation	5%
Tear Resistance	1 pli
Shore A Hardness	50
Volume Resistivity	10 ¹⁵ ohm cm
Surface Resistivity	10 ¹⁵ ohm
Dielectric Strength	20.4 MV/m
2 Hour Water Boil, Hardness Change	+6.3%
Weight Change	+0.15%
28 Days at 150°C, Hardness Change	+3.8%
Weight Change	-0.5%

Free Radical UV Cure

SR1120, benzyl dimethyl ketal, at 10 phr produced a cured coating in 5 minute, as measured by MEK rubs. Cure rates will be slower than those of acrylate functional resins.

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