Anderson Development Company

Curene® Liquid Curatives Guide

Attributes of ADC's Liquid Curatives:

Curene® 49 (Eq.Wt=49)
- Best used with polyester based prepolymers
- Produces low durometer parts, 20-30 Shore A units lower than compared to MBOCA-cured
- Excellent curative for applications requiring solvent resistance
- Superior tensile and compression set properties for low hardness
- Provides very long pot life when used without catalyst
- Low equivalent weight; Less material used per part

Curene® 89 or 89LC (Eq.Wt=89)
- Recommend for AL systems, 8003 AS, and 7003 AP-S,M, or F
- Low viscosity liquid
- Water white parts with LC (low color) grade
- Equivalent to Ethacure 100

Curene® 93 (Eq.Wt=93)
- Produces parts that are 25-30 Shore A units lower than compared to MBOCA-cured
- Low viscosity liquid
- Excellent compression set
- Good to blend in small amounts with MBOCA to enhance grindability

Curene® 100 XPF (Eq.Wt=115)
- Short to moderate demold times
- Reduces hardness by 20 to 30 Shore A units as compared to MBOCA-cured
- Excellent compression set
- Good physical properties for low durometers
- Higher tear strength than with curatives that are all triol like Curene 49 or 93
- High rebound materials can be made with the right prepolymers

Curene® 107 (Eq.Wt=107)
- Similar hardness obtained as when cast with MBOCA
- Similar physical properties as when cast with MBOCA
- Equivalent to Ethacure 300

Curene® 110 (Eq.Wt=110)
- Recommended for AL systems
- Low viscosity liquid
- Similar to Curene 89, but higher equivalent weight, giving a more favorable weight ratio

Curene® 185 (Eq.Wt=185)
- Recommended for PPGs or PTMEGs only
- Reduces hardness by 35 to 40 Shore A units as compared to MBOCA-cured
- Short to moderate demold times
- Good flex life
- High rebound materials with PTMEGs
- Low rebound materials with PPGs

Curene® 243 (Eq.Wt=243)
- Very low viscosity
- Reduces hardness by about 15 Shore A units or 5-10 Shore D units as compared to MBOCA-cured
- Provides extra processing time at low viscosity for thin cross-section pours
- Excellent tear strength
- Allows for room temperature casting with some hot cast prepolymers
- Increases shrinkage somewhat

Curene® 280 (Eq.Wt=280)
- Recommended for PPGs or PTMEGs only
- Reduces hardness by 5 to 10 Shore A units as compared to MBOCA-cured
- Allows for room temperature processing with low shrink and long pot life with specific prepolymers
- Excellent elongation and flex life

Curene® 3005 (Eq.Wt=280)
- Recommended for polyesters only
- Reduces hardness by 5 to 10 Shore A units as compared to MBOCA-cured
- Excellent flex life
- Provides long working time
- Improved abrasion resistance and cut strength over triol-based curatives

Blue = diol
Green = triol
Red = diol/triol blend