Product information

EPODIL® 757

Reactive Diluent

DESCRIPTION

Epodil 757 reactive diluent is a technical grade of the glycidyl ether of cyclohexane dimethanol. The product is a cycloaliphatic difunctional reactive diluent used to reduce the viscosity of epoxy resin systems.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Clear Liquid	
Color	2	Gardner
Viscosity @ 77°F	65	сР
Specific Gravity @ 77°F	1.10	°F
Flash Point (Setaflash)	>200	°F
Hydrolyzable Chloride	max 0.02	
Residual Epichlorohydrin	max 10	ppm
Weight per Gallon	9.2	lb/gal
Moisture Content	max 0.2	%
Equivalent Wt/{H}	166	
Recommended Use Level (EEW=190)	See Table	phr

ADVANTAGES

- Excellent creep resistance
- Good maintenance of physical properties
- Moderate dilution efficiency
- · Minimal effect on cure speed

APPLICATIONS

- Laminates
- Potting compounds
- Mortars, grouts and flooring



SHELF LIFE

At least 36 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Epodil 757 reactive diluent.

SUPPLEMENTARY DATA

Weight Percent Epodil 757 (%)	Viscosity @ 77°F (cP)
Epodil 757 reactive diluent can be used as follows	s to lower the viscosity of a standard Bisphenol-A liquid epoxy resin
EEW=190) with an initial viscosity of 12,500 cP:	
10	4,800
20	1,950
30	1,000

EXAMPLE IMPACT OF DILUENT ON A SIMPLE FORMULATED SYSTEM

Evonik recommends that the formulator test reactive diluents in their system for performance. The following data is provided as an example of the impact of the reactive diluent on a simple formulated system.

SYSTEM:

- BADGE with 12.5 wt% Epodil 757
- Cured with Ancamine® 1618 curing agent at 1:1 stoichiometry

Property	Without Epodil 757	With Epodil 757
Persoz hardness ² at 23°C (1 day/7day)	195/310	109/292
Phase 3 dry time ³ (h)	7:10	8:24
Tg ⁴ (1st scan)	51	51
Gel time ⁵ (min)	55	53

- (2) BYK Persoz pendulum tester according to ISO 1522 with 10 mil WFT at 23°C/50% RH
- (3) 6 mil WFT BK Drying time recorder according to ASTM D5895 with 6 mil WFT at 23°C/50% RH
- (4) TA Instruments DSC model Q200 first scan data
- (5) 150g mix using TECHNE Gel-timer



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