

Leepoxy Plastics, Inc.

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TECHNICAL BULLETIN LEECAST U30125-1

Description

LEECAST U30125-1 is a unique two-part urethane system that is mixed and poured at room temperature and is an attractive alternative to epoxy systems. It develops full cure after 24 hours at room temperature providing an impact, temperature-resistant system.

TYPICAL PROPERTIES		
	Part A	Part B
Appearance	Gray liquid	Brown liquid
Thixotropy @ 25°C, cps	110,900	60
Viscosity @ 25°C, cps	46,200	60
Density, lbs./gal.	13.8	10.0
Shelf Life, months	12	12

Directions for Use

Measure out Parts A and B and mix thoroughly being careful to scrape the sides and bottom of the mix container. Do not degas, entrapped air bubbles will rise out of the mix during the first five minutes after mixing. Demold as soon as desired after the material sets up. Full cure occurs after 24 hours at room temperature. For quicker throughput, allow the material to gel at room temperature followed by a post cure at 80°C for one hour.

A separate technical bulletin on vacuum forming with LEECAST U30125-1 is also available.

TYPICAL HANDLING PROPERTIES

	Part A	Part B
Mix Ratio, by weight	100	25
Mixed Color	Gray	
Gel Time @ 25°C, 100 g, min	23	
Cure Schedule @ 25°C, hours	24	
Alternate Cure Schedule	Gel @ 25°C + 1 hour @ 80°C	

Safety

LEECAST U30125-1 is a urethane. Containers must be kept tightly closed to avoid moisture contamination. Avoid contact with Part B, which is a skin irritant. Although LEECAST U30125-1 **does not** contain TDI or MOCA, it should be used in a well-ventilated area.

TYPICAL PERFORMANCE

Hardness, Shore D	90
Dielectric Constant, 100 Hz, 25°C	5.20
, 80°C	5.99
, 100°C	6.00
Dissipation Factor, 100 Hz, 25°C	0.014
, 80°C	0.057
, 100°C	0.055
Volume Resistivity, ohm-cm, 25°C	1.5 x 10 ¹⁴
, 80°C	9.0 x 10 ¹⁰
, 100°C	8.5 x 10 ¹⁰
Thermal Conductivity, cal cm/ sec cm ² °C	9 x 10 ⁻⁴
Water Absorption, 7 days @ 25°C, %	0.6
Weight Loss, 7 days @ 150°C, %	0.6

The Information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence or otherwise is limited to the purchase price of the material. Freedom to use any patent owned by Leepoxy Plastics, Inc. or others is not to be inferred from any statement contained herein.

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