

Urethane 51606-MV

ENCAPSULATION SYSTEM

TECHNICAL DATA

Product Description

Resin Designs' Urethane 51606-MV is a room temperature curing, two part polyurethane system designed to be used for high performance potting and encapsulation applications. This two to one mix ratio product cures at room temperature in one hour to a tough flexible polymer.

APPLICATIONS

- Potting
- Encapsulation

FEATURES

- Room temperature cure
- Moisture resistant
- Two component system

RECOMMENDED SUBSTRATES

UNCURED PROPERTIES*		
Property	Value	Test Method
Chemical Class, PT A:B	Isocyanate: Polyol	N/A
Solvent Content	No Nonreactive Solvents	N/A
Color, Mixed	Clear	N/A
Mixed Viscosity	Light Paste	N/A
Viscosity, cps, PT A	9,000-50,000	TFTEST001
Viscosity, cps, PT B	18,000-100,000	TFTEST001
Mix Ratio by Volume, PT B:A	2:1	N/A
Specific Gravity, PT A	1.23	TFTEST002
Specific Gravity, PT B	0.98	TFTEST002

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore A	90	TFTEST012
Moisture Resistance	Excellent	N/A
Elongation, %	200	N/A
Operating Temperature Range, C	-60 to 120	N/A
Tensile Strength, psi	>2,000	TFTEST005
T-Peel, pli	85	N/A
Tensile Lap Shear, Lexan/Lexan, psi	800	N/A
Dielectric Strength, volt/mil	400	N/A
Dielectric Constant, 1MHz	3.4	N/A

CURE DATA*		
Property	Value	Test Method
Work-Life, 20 g, 25C, min	5	N/A
Gel Time, 20 g, 25C, min	20	N/A
Cure Time, @ Room Temperature, hr	12-24	N/A

Storage:

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Material is sensitive to moisture. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

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