

Urethane 51606-LV-BLACK

ENCAPSULATION AND BONDING SYSTEM

TECHNICAL DATA

Product Description

Resin Designs' Urethane 51606-LV-Black 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 as little as two hours to a tough flexible polymer.

APPLICATIONS

- Encapsulation
- Potting

FEATURES

- Flexible
- Room temperature cure
- Two component system
- Moisture resistant

RECOMMENDED SUBSTRATES

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class, PT A:B	Isocyanate : Polyol	N/A
Mixed Color	Black	N/A
Viscosity, cps, PT A	1,500-2,500	TFTEST001
Viscosity, cps, PT B	1,500-2,000	TFTEST001
Mix Ratio by Volume, PT B:A	2:1	N/A
Specific Gravity, PT A	1.20	TFTEST002
Specific Gravity, PT B	0.95	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	-50 to 120	N/A
Tensile Strength, psi	>1,000	N/A
Tensile Lap Shear, Polycarbonate, psi	2,500	N/A
Tensile Lap Shear Lexan/Lexan, psi	800	N/A
Dielectric Strength, Volt/Mil	>400	N/A

CURE OVERVIEW*		
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	24	N/A
Cure Time @ 65C, min	30	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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Resin Designs, LLC 11 State Street Woburn, MA 01801 www.resindesigns.com P 781-935-3133 F 781-935-3144

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