

**Urethane 64-50P**
**ENCAPSULATION SYSTEM**
**TECHNICAL DATA**
**Product Description**

Urethane 64-50P 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 two hours to a tough flexible polymer.

**APPLICATIONS**

- Potting
- Encapsulation

**FEATURES**

- Two part
- Room temperature cure
- Flexible

**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	Clear to Yellow	N/A
Specific Gravity, PT A	1.13	QPTEST002
Specific Gravity, PT B	0.92	QPTEST002
Viscosity, 25C, cps, spn 6 @20RPM, PT A	18,000-20,000	QPTEST001
Viscosity, 25C, cps, spn 4 @20RPM, PT B	2,000-2,600	QPTEST001
Mix Ratio by Weight, PT A:B	6.4 : 10	N/A
Mix Ratio by Volume, PT B:A	2:1	N/A

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore A	45	QPTEST012
Moisture Resistance	Excellent	N/A
Operating Temperature, C	-50 to 120	N/A
Tensile Strength, psi	140	ASTM D412
Tensile Lap Shear, Lexan/Lexan, psi	90	QPTEST005
Elongation, %	250	ASTM D412
Dielectric Strength, Volt/mil	400	N/A

CURE OVERVIEW*		
Property	Value	Test Method
Gel Time @25C, min	7-10	QPTEST028
Cure Time @Room Temperature, hr	24	N/A
Cure Time @65C, 20 grams, min	60	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 SDS for safe handling recommendations.

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