



Urethane AB 1000

ENCAPSULATION SYSTEM

TECHNICAL DATA

Product Description

AquaBond's Urethane AB 1000 is a room temperature curing two part polyurethane system designed to be used for high performance potting and encapsulation applications. The one to two mix ratio product cures at room temperature in one hour to a tough and flexible polymer. The work life of this product is 4 minutes at 25C.

APPLICATIONS

Encapsulation
Potting

FEATURES

Two component system
Room temperature cure
Moisture resistant
Flexible

RECOMMENDED SUBSTRATES

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Composition, PT A:B	Isocyanate : Polyol	N/A
Mixed Color	Blue	N/A
Viscosity @ 25C	Light Paste	N/A
Specific Gravity PT A	1.23	TFTEST002
Specific Gravity PT B	0.98	TFTEST002
Mix Ratio by Volume, PT B:A	2:01	N/A
Mix ratio Weight, PT Iso:Poly	6:10	N/A
CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Hardness, Shore A	85	TFTEST012
Tensile Lap Shear, Lexan/Lexan, psi	800	N/A
T-Peel, pli	85	N/A
Tensile Strength, psi, N/mm ²)	>2,000	N/A
Elongation @ 25C, %	>200	N/A
Moisture Resistance	Excellent	N/A
Thermal Conductivity, W/mk	0.35	N/A
Operating Temperature, C	-60 to 120	N/A
Dielectric Strength, Volt/mil	400	N/A
Dielectric Constant, 1MHz	3	N/A
CURED OVERVIEW*		
Property	Value	Test Method
Work Life, 20 grams @ 25C, min	5	N/A
Gel Time, 20 grams @ 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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