

Devcon Aluminum Liquid (F-2)

Epoxy; Epoxide

Devcon

Message:

Aluminum-filled, pourable epoxy for making molds, patterns, and holding fixtures that can be machined, drilled, or tapped.

Intended Use:

Mold-making, patterns, holding fixtures, leveling equipment

Product features:

Machinable to metallic finish

Low viscosity, self-leveling liquid

Castable

Low shrinkage

General Information			
Filler / Reinforcement	Aluminum filler		
Features	Low viscosity		
	Machinable		
	Low shrinkage		
Uses	Template		
	Mold/Mold/Tool		
Appearance	Aluminum white		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	
Specific Volume	0.632	cm ³ /g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	121	°C	
Wet	49	°C	
Tensile Shear Adhesion	18.6	MPa	ASTM D1002
Molding Shrinkage - Flow	0.090	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5170	MPa	ASTM D638
Flexural Strength	49.5	MPa	ASTM D790
Compressive Strength	67.7	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.66	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	3.9	kV/mm	ASTM D149
Dielectric Constant	8.60		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mixing ratio by weight: 9.0		
Component a	Mixing ratio by capacity: 5.0		
	Mixing ratio by weight: 1.0		
Component B	Mixing ratio by capacity: 1.0		
Pot Life (24°C)	75	min	
Thermoset Mix Viscosity	15000 - 25000	cP	
Additional Information	Nominal Value	Unit	Test Method
Cured 7 days @ 75°F			
Uncured Properties	Nominal Value	Unit	Test Method
Curing Time	16	hr	

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