

Devcon Plastic Steel® Liquid (B)

Epoxy; Epoxide

Devcon

Message:

A steel-filled, liquid epoxy designed for maintaining and/or repairing tooling, mold-making, and leveling equipment.

Intended Use:

Holding fixtures for intricate parts; filling and leveling equipment; repairing hard-to-reach areas where a flowable epoxy is needed; duplicating or tracing masters; short run dies and molds

Product features:

Low viscosity, self-leveling liquid

Castable

Low shrinkage

Machinable to metallic finish

General Information			
Filler / Reinforcement	Steel filler		
Features	Low viscosity		
	Machinable		
	Low shrinkage		
Uses	Mold Making		
	Metal repair materials		
	Fill application		
	Mold/Mold/Tool		
Appearance	Dark gray		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.10	g/cm ³	
Specific Volume	0.473	cm ³ /g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	121	°C	
Wet	49	°C	
Tensile Shear Adhesion	19.3	MPa	ASTM D1002
Molding Shrinkage - Flow	0.060	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5860	MPa	ASTM D638
Flexural Strength	51.6	MPa	ASTM D790
Compressive Strength	70.3	MPa	ASTM D695

Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.58	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	1.2	kV/mm	ASTM D149
Dielectric Constant	67.5		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mixing ratio by weight: 9.0		
Component a	Mixing ratio by capacity: 3.0		
	Mixing ratio by weight: 1.0		
Component B	Mixing ratio by capacity: 1.0		
Pot Life (24°C)	45	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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