

# Ad-Tech Epoxy EC-428-1

Epoxy; Epoxide

Ad-Tech Plastic Systems Corp.

Message:

Ad-Tech Epoxy EC-428-1 is an Epoxy; Epoxide (Epoxy) product filled with aluminum. It is available in North America. Typical application: Tools.

General Information			
Filler / Reinforcement	Aluminum		
Features	Low Exotherm		
	Machinable		
Uses	Molds/Dies/Tools		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Apparent Density	1.44	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.050	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4900	MPa	ASTM D638
Tensile Strength (Break)	38.6	MPa	ASTM D638
Tensile Elongation (Yield)	0.90	%	ASTM D638
Flexural Modulus	3720	MPa	ASTM D790
Compressive Strength	79.2	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.6	°C	ASTM D648
CLTE - Flow	5.7E-5	cm/cm/°C	ASTM D696
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 1.0		
Hardener	Mix Ratio by Weight: 20		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 2.8		
Pot Life (25°C)	140 to 180	min	
Shelf Life (25°C)	52	wk	

Thermoset Mix Viscosity (25°C)	5500	cP	ASTM D2393
Demold Time (25°C)	7200 to 10000	min	

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#### Recommended distributors for this material

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