

Ad-Tech Epoxy EC-423-1 (Fast)

Epoxy; Epoxide

Ad-Tech Plastic Systems Corp.

Message:

Ad-Tech Epoxy EC-423-1 (Fast) is an Epoxy; Epoxide (Epoxy) product filled with aluminum. It can be processed by casting and is available in North America. Typical application: Tools. Primary characteristic: heat resistant.

General Information			
Filler / Reinforcement	Aluminum		
Features	Good Heat Aging Resistance		
	Good Thermal Stability		
Uses	Molds/Dies/Tools		
Appearance	Black		
Forms	Pellets		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Apparent Density	1.65	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.12	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8200	MPa	ASTM D638
Tensile Strength (Break)	41.4	MPa	ASTM D638
Tensile Elongation (Yield)	0.70	%	ASTM D638
Flexural Modulus	5790	MPa	ASTM D790
Compressive Strength	120	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	65.6	°C	ASTM E1356
CLTE - Flow	2.4E-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: 7.0		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 8.5		

Pot Life (25°C)	90	min	
Thermoset Mix Viscosity (25°C)	20000	cP	ASTM D2393
Demold Time (25°C)	4300 to 7200	min	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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