

STAR Technology

FORMULATING • INNOVATIVE • SOLUTIONS

E-90

Model and Tooling Board

DESCRIPTION

STAR Technology E-90 is an epoxy tooling board specifically designed for durable tooling and model making applications. E-90 is free machining to produce curled turnings rather than "dust". E-90 contains no abrasive fillers to damage cutting tools and, E-90 shows outstanding stability in extreme humidity and has a low coefficient of thermal expansion. E-90 can be custom cast and custom colored to meet your application needs and is available in slabs up to 6" thick.

TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Color		Charcoal
Density	ASTM D1475	90 lb/ft ³ nominal
Share Hardness (D)	ASTM D2240	85
Heat Distortion Temperature by DSC		80°C
Tensile Strength (psi)	ASTM D638	7,000
Elongation at break		~4 %
CTE (u/u/°C)	ASTM D696	7x10 ⁻⁵
Flexural Modulus (psi)		653,000
Compressive Strength (psi)	ASTM D695	8,000
Suggested Maximum Cutting Tool Rate (Carbide)		350 - 400 ft/min
Flexural Strength (psi)		20,900

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