

# Technical Bulletin

<b>Resin: EI-Cast 760</b>
<b>Hardener: TS-100</b>

**Description:** EI-Cast 760 with TS-100 hardener is a filled two component epoxy which features safe handling properties and high deflection temperatures with an overnight cure. Excellent thermal conductivity and good flow qualities makes this product very versatile.

**Uses:** Industrial control units, transformers, encapsulating, noise filters, casting, and potting where high deflection temperatures and good thermal conductivity are required.

## Physical Properties @ 22°C

<b>Color:</b>	Black	
<b>Shore "D" Hardness ASTM D2240:</b>	85	
<b>Viscosity Resin:</b>	40,000 cps	<b>Mixed:</b> 3,500 cps
<b>Viscosity Hardener:</b>	20 cps	
<b>Density Resin:</b>	13.6 wpg	<b>Mixed:</b> 13.24 wpg
<b>Density Hardener:</b>	8.1 wpg	
<b>Specific Gravity, Resin:</b>	1.65	<b>Mixed:</b> 1.59
<b>Specific Gravity, Hardener:</b>	.97	
<b>Tensile Strength:</b>	5,000 psi	<b>Coefficient of Thermal</b>
<b>Compressive Strength:</b>	20,000 psi	<b>Expansion:</b> $15 \times 10^{-6}$ In/In/°F
<b>Maximum Use Temperature:</b>	400°F	<b>Linear Shrinkage per</b>
<b>Shelf Life:</b>	6 months	<b>ASTM D2566:</b> 0.0001"

## Mixing & Cure Instructions

Ratio Parts by Weight:	Parts Resin	100
	Parts Hardener	7
Ratio Parts By Volume	Parts Resin	8.55
	Parts Hardener	1
Pot Life 100 gram Mass, Room Temp. (72°F)		58 mins.

## Electrical Properties

Volume Resistivity, Applied voltage: 500 VDC @ 1 min. Ele. per ASTM D257	$0.8 \times 10^{16}$
Dielectric Constant, Test frequency: 1 MHz per ASTM D150	5.17
Dielectric Strength, Oil rate of rise(short time): 500 V/S per ASTM D149	432
Dissipation Factor, Test frequency: 1 MHz per ASTM D150	0.0212
Thermal Conductivity, BTU-in./hr.-ft <sup>2</sup> -°F per ASTM C177	12.75

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