TALMIR TALMIR ELECTRONICS LTD all in one

Epoxy Resin Cost Effective, Thermally Conductive **Multicomp**

Description

This is a two part, thermally conductive epoxy designed for potting and encapsulation. This meets UL94 V-0 approval and provides thermal dissipation for units with limited spacing.

Typical Properties

Liquid Properties

Base Material	: Epoxy
Density Part A - Resin	: 2.13g/ml
Density Part B - Hardener	: 0.93g/ml
Part A Viscosity	: 80000mPa s @ 23°C
Part B Viscosity	: 25mPa s @ 23°C
Mixed System Viscosity	: 5000mPa s @ 23°C
Mix Ratio (Weight)	: 12.78:1
Mix Ratio (Volume)	: 5.58:1
Usable Life (20°C)	: 120 mins
Gel Time (23°C)	: 7 hours
Cure Time (23°C)	: 24 hours
Cure Time (60 °C)	: 4 hours
Colour Part A - Resin	: Black
Colour Part B - Hardener	: Black
Shrinkage	: < 1%
Exotherm (Measured on 100ml sample;	
cylinder of diameter 49.4mm @ 23°C)	: < 35°C
Cured System	
Thermal Conductivity	: 1W/m.K
Cured Density	: 1.95g/ml

Cured Density	: 1.95g/ml
Temperature Range	: -40°C to +130°C
Dielectric Strength	: 10kV/mm
Volume Resistivity	: 10 ¹⁵ Ω-cm
Shore Hardness	: D90
Colour (Mixed System)	: Black
Flame Retardancy	: Yes
Permittivity @ 50 Hz	: 6
Comparative Tracking Index	: >850 Volts
Water Absorption (9.7mm thick disk, 51mm diamet	er)
10 days @ 20°C/1 hour @ 100°C	: <0.5%/<1%
	Cured Density Temperature Range Dielectric Strength Volume Resistivity Shore Hardness Colour (Mixed System) Flame Retardancy Permittivity @ 50 Hz Comparative Tracking Index Water Absorption (9.7mm thick disk, 51mm diamet

General Properties

Packaging Shelf Life Storage **UL** Approval

С

: 250g Resin Pack : 24 months : Dry Conditions: Above 15°C, Below 35°C : Meets UL94 V-0







Epoxy Resin Cost Effective, Thermally Conductive Multicomp

Mixing

When in Resin pack form, the resin and hardener are mixed by removing the clip and moving the contents around inside the pack until thoroughly mixed. To remove the clip, remove both end caps, grip each end of the pack and pull apart gently. By using the removed clip, take special care to push unmixed material from the corners of the pack. Mixing normally takes from two to four minutes depending on the skill of the operator and the size of the pack. Both the resin and hardener are evacuated prior to packing so the system is ready for use immediately after mixing. The corner may be cut from the pack so that it may be used as a simple dispenser.

Part Number Table

Description	Part Number
Epoxy Resin, Thermally Conductive, Black, 250g, Pack	MC002229



