Maintenance and Service Aids

Technical Data Sheet





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FIP210

Form-in-Place EMI Shielding Material- Corrosion Resistance

FIP210 is a single component moisture cure EMI shielding material filled with Ni/Cu particles. FIP210 has been designed to easily dispense small gasket beads. FIP210 offers high shielding effectiveness, low corrosion and low closure force. The superior performance in harsh environments makes this material an excellent choice for applications requiring long term reliability.

- Environmentally friendly, low odour
- Fast cure, high dispensing performance

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- Excellent corrosion resistance on Al.
- Flame retardant; meets UL94 V-0

Approvals	RoHS Compliant (2015/863/EU):	Yes
	UL Approval:	Meets UL94 V-0

Typical Properties

	Cura Cuatana	Maiatura
	Conductive Filler	Ni/Cu
Liquid Properties:	Base Material	Silicone

Cure System Moisture Tack Free Time @ 23 °C, 50% RH 5 minutes Handling Time @ 23 °C, 50% RH 2 hours Full Cure @ 23 °C, 50% RH 48 hours

Dry Conditions: Below 0°C Storage Conditions

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Meets UL94 V-0

Shelf Life 6 months

Cured System: Cured Density (g/ml) (ASTM D395) 3.2

> Maximum Operating Temperature (°C) 125

Volume Resistivity (ohm-cm) Initial/Aged 48 0.020/0.025

hours@125°C

Flame Retardancy

Shore Hardness @ 25°C (ASTM D 2240) A55 Shielding Effectiveness (dB 30MHz to 18GHz) >100

(IEEE-STD-299)

226% Elongation (ASTM D 412)

Force deflection (0.8x1.0mm bead) (ASTM D575 modified) 3.04 N/cm @ 10%, 12.02 N/cm @ 30%

Tensile Strength (psi) (ASTM d 412) 159

Compression Set @ 85°C (%) (ASTM D 395 B) 40 Adhesion, Bare AI (N/cm) >8

Galvanic Corrosion (weight loss, 168 hours on bare Al) 7mg

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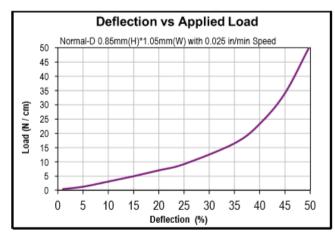
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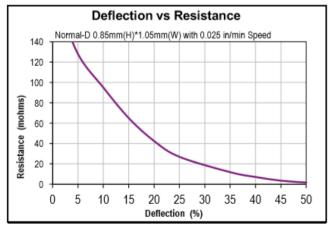
Ashby Park, Coalfield Way, Ashby de la Zouch, Leicestershire LE65 1JR T +44 (0)1530 419 600 F +44 (0)1530 416 640 BS EN ISO 9001:2008 Certificate No. FM 32082





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Description

Packaging

Order Code Shelf Life

Form-in-Place EMI Shielding Material

300ml Syringe FIP210_30S

6 months (Stored below 0°C)

Directions for Use

Low temperature storage (below 0°C) is required, FIP210 should be left to thaw at ambient temperature for 2 to 4 hours before use. Ensure surfaces are clean, dry and free from grease and dust before use. FIP210 can be used in automated robotic dispensing equipment. The elastomeric material can be precisely positioned into narrow gasket beads. The smallest recommended bead size is 0.3x0.4mm (hxw) and the largest recommended bead size is 0.8x1.0mm (hxw). FIP210 shows good adhesion to Aluminium and cures with atmospheric moisture. The superior performance of FIP210 in harsh environments makes this material an excellent choice for applications requiring long term reliability, including smart phones, high speed connectors and automotive electronics.

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