

IRS 2012



IRS 2012 Low Density Light Weight Epoxy Potting Compound

Description

IRS 2012 is a very low density, light weight epoxy resin system with excellent physical properties. It can be used in systems where weight is critical (e.g. auto sport, motor racing, aerospace). IRS 2012 also has good transparency to RF signals or radio signals.

Features & Benefits

- Low density
- Light weight
- Black potting & encapsulation system
- Contains advanced light weight fillers
- Excellent electrical properties
- Chemical resistance to solvents, oils, fuels, acids, bases, hydraulic fluids and solvents
- Good mechanical properties
- Low cure shrinkage
- Has uses in radio frequency applications, RF transparent
- Available in easy-to-use twinpacks

Specifications

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Typical properties		
Mix ratio	100:45 resin to hardener by volume 70:30 resin to hardener by weight	
Mixed viscosity	11 000 cps	
Pot life (100g mix)	1 hour @ 23°C	
Cure schedule	Bondline temperature: 23°C 60°C	Time: 24 hours 4 hours
Density	0.6 g/cm ³	
Hardness, Shore D	40	
Tensile strength	4 MPa	
Crush resistance	50 MPa	
Operating temperature	-55°C to 150°C 200°C short term	

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Typical properties

Chemical resistance	Particularly resistant to fuels, lubricating oils, acids and bases Also resistant to hydraulic fluids, solvents
Dielectric strength	15kV/mm
Volume resistivity	10^{11} ohm-cm
Colour	Black
Shelf life	12 months

Ordering Information

IRS 2012 is available in twinpacks or in bulk.

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The twinpack sachet is a clear film sachet, with the resin and hardener separated by a removable clip and rail divider. [Click here for twinpack mixing instructions.](#)

Part number	Description
IRS2012-167G	Low Density Epoxy Potting Compound, 100 gram twinpack (approx 167 ml)

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Part number	Description
IRS2012-300G	Low Density Epoxy Potting Compound, 300 gram twinpack (approx 500 ml)

For optimal results, store away from strong alkalis, oxidising materials, strong acids and amines. The conditions must prevent the formation of sparks and static electricity and the product must avoid excessive heat for prolonged periods of time while in storage. Keep only in the original container. Keep container upright and tightly closed, in a cool, well-ventilated place. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Supplied by:



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