

IRS 2111 All-Purpose Epoxy Adhesive



Description

IRS 2111 All-Purpose Epoxy Adhesive is a general-purpose two-part epoxy adhesive with medium viscosity. It bonds well to a large variety of substrates including metals, glass, wood, composites, GRP, ceramics, ferrites, stone, rubber, and many thermoset plastics.

IRS 2111 cures to a resilient adhesive with some flexure, allowing resistance to impacts and dynamic loading. It has good resistance to moisture and chemicals. With a useful working life of about one hour, IRS 2111 is a versatile adhesive suitable for evaluating in many industrial applications.

IRS 2111 is supplied in convenient side-by-side double syringe cartridges.

Features & Benefits

- Excellent general purpose structural adhesive

IRS 2111 All-Purpose Epoxy Adhesive



- Useful working life of about one hour
- Tough and resilient, impact and vibration resistant
- Good chemical/humidity/moisture resistance
- Convenient packaging
- Non-toxic
- RoHS compliant

Specifications

IRS 2111 All-Purpose Epoxy Adhesive



Specification	
Mix ratio	1:1
Mixed viscosity	14,000 cps
Gel time (room temperature)	90 minutes
Hardness, Shore D	65 – 75
Tensile strength	44 MPa
Specific gravity (mixed)	1.1
Operating temperature	-55°C to +120°C
Compressive strength	64 MN/m ²
Surface resistivity	1.6 x 10 ¹² ohm.cm
Dielectric strength	17 kV/mm
Thermal conductivity	0.3 W/mK
Elongation at break	2%
Glass transition (Tg)	~50°C

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Specification

Colour	Amber
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Cure schedule (150ml sample)			
Bondline temperature	Working life	Light handling	Full cure
10°C	70 minutes	48 hours	96 hours
RT (20-25°C)	60 minutes	16 hours	32 hours
30°C	30 minutes	8 hours	16 hours

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Lap shear adhesion

Aluminium to Aluminium	7.6 MPa
ABS to ABS (substrate failure)	5.5 MPa
Copper to Copper	6.1 MPa
Nylon 6 to Nylon 6	2.5 MPa
Stainless Steel	9.0 MPa
Acrylic to Acrylic	2.3 MPa


Safety Data Sheets

For the latest SDS for this product, please e-mail msds@intertronics.co.uk

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Other Information

	<p>Adhesive Problem? Whats the Cure?</p> <p>A guide to adhesive bonding, considering structural bonding and the criteria involved for successful assembly.</p>
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Ordering Information

Part number	Description
IRS2111-50G	Double syringe cartridge, 50 grams

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Part number	Description
IRS2111-50KIT	All-purpose epoxy adhesive kit includes: <ul style="list-style-type: none">· 1 x IRS2111-50G Double syringe cartridge· 1 x IDM805001 Syringe gun· 3 x IDM2N10 Static mixing nozzles

Storage: Store in the original unopened containers under cool dry conditions between 15° and 25°C.

Next Steps

Our technical team are on hand to discuss your application requirements. [Click here](#) to get in touch.

Find out more information on [how to purchase](#).

Supplied by:



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Last updated: August 2021 Version: 2.2

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