

Opti-tec 5020-2 Clear Epoxy Potting Compound



Description

Also available to buy online at [mouser.com](https://www.mouser.com)  **SHOP** 

Opti-tec 5020-2 is a clear, two component, low viscosity optical epoxy which will cure in thick sections at room temperature. In thin sections, it is clear and transparent. In thicker sections, it can take a yellow or straw tint. **Opti-tec 5020-2** is designed for potting and encapsulation of components where optical clarity, good wetting and low viscosity are important.

Opti-tec 5020-2-B is a **black** version with similar properties. See Specifications tab for details.

Features & Benefits

- Available in clear or black versions
- Degree of flexibility which reduces internal stresses
- Relatively low level of exotherm during cure making it safe to use with delicate components
- One hour pot life after mixing and cures within 24 hours at room temperature in thick sections
- Low viscosity allowing it to fill voids without air entrapment
- High gloss finish even when cured under high humidity
- Available in easy-to-use twin packs or bulk

Opti-tec 5020-2 Clear Epoxy Potting Compound



Applications

- Potting or encapsulation
- Encapsulation of larger components
- Optical assembly, optical filters, LEDs
- Optoelectronics
- Void filling in cables

Specifications

Part number change: as of version 8.0, October 2021, the part number of this product changed from Opti-tec 5020-1 to Opti-tec 5020-2 and Opti-tec 5020-1-B to Optic-tec 5020-2-B. This is due to an unavoidable change in a formulation component. This change does not affect the product data-sheet specifications. The new formulation has passed internal testing and is deemed to be equivalent.

Opti-tec 5020-2

Specification

Opti-tec 5020-2 Clear Epoxy Potting Compound



Mix ratio	2:1 resin to hardener	
Mixed viscosity	1 Pa.s (1000 cps) @ 25°C	
Colour	Clear/straw	
Density	1.15	
Pot life	75 minutes @ 25°C	
Cure schedule	Bondline temperature	Time
	25°C 60°C	24 hours 4 hours
	Rate of cure will depend on temperature and volume. Thin films will take 2-3 days at 25°C.	
Cured properties		
Hardness, Shore D	60-65	
Temperature range	-55 to 115°C	
Tensile strength	50 MPa	
Dielectric strength	13 kV/mm	
Dielectric constant	4	

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Volume resistivity	14 ¹⁴ ohm.m
Shelf life	12 months from date of manufacture in original sealed containers

Opti-tec 5020-2-B BLACK

Specification		
Mix ratio	2:1 resin to hardener	
Mixed viscosity	1 Pa.s (1000 cps) @ 25°C	
Colour	Black	
Density	1.15	
Pot life	75 minutes @ 25°C	
Cure schedule	Bondline temperature	Time
	25°C 60°C	24 hours 4 hours

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Specification		
	Rate of cure will depend on temperature and volume. Thin films will take 2-3 days at 25°C.	
Cured properties		
Hardness, Shore D	60	
Temperature range	-55 to 115°C	
Tensile strength	50 MPa	
Dielectric strength	13 kV/mm	
Dielectric constant	4	
Volume resistivity	10 ¹⁴ ohm.m	
Shelf life	12 months from date of manufacture in original sealed containers	

Safety Data Sheets

Opti-tec 5020-2 Clear Epoxy Potting Compound



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

Ordering Information

Opti-tec 5020-2 is available in twinpacks or in bulk.





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.](#)

Standard twinpack size is 100g total weight.

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Part number	Description
<div>OPT5020-2-100G</div> <div></div>	Clear Epoxy Potting Compound – 100g twinpack sachet
<div>OPT5020-2-750G</div> <div></div>	Clear Epoxy Potting Compound – 750g kit
OPT5020-2-B-100G	Black Epoxy Potting Compound – 100g twinpack sachet
OPT5020-2-B-750G	Black Epoxy Potting Compound – 750g kit

For optimal results, store away from strong alkalis, oxidising materials, acids, amines and oxidising agents. Prevent storage where formation of sparks or static electricity could be present. Keep only in

Opti-tec 5020-2 Clear Epoxy Potting Compound



the original container. Keep container tightly closed and upright, 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.

Let's start by talking about your application



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orders@intertronics.co.uk

Opti-tec 5020-2 Clear Epoxy Potting Compound



- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

- Tell us about your application

Any information that you submit using this form will be processed according to our [privacy policy](#).

- Comments

This field is for validation purposes and should be left unchanged.

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Last updated: January 2024 Version: 8.2

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