

# EPO-TEK® 730-110 Black

Epoxy; Epoxide

Epoxy Technology Inc.

## Message:

A two component, room temperature curing, general and structural grade epoxy. It can be used for adhesive, sealing, and encapsulating applications in medical, x-ray device, filtration, opto-electronics and PCB industries. It is a black version of EPO-TEK 730-110.

| General Information                       |                                    |          |
|---|------------------------------------|----------|
| Features                                  | General Purpose                    |          |
| Uses                                      | Adhesives                          |          |
|   | Electrical/Electronic Applications |          |
|   | General Purpose                    |          |
|   | Medical/Healthcare Applications    |          |
|   | Printed Circuit Boards             |          |
|   | Seals                              |          |
| Agency Ratings                            | EC 1907/2006 (REACH)               |          |
|   | EU 2003/11/EC                      |          |
|   | EU 2006/122/EC                     |          |
| RoHS Compliance                           | RoHS Compliant                     |          |
| Forms                                     | Liquid                             |          |
| Processing Method                         | Encapsulating                      |          |
| Thermal                                   | Nominal Value                      | Unit     |
| Glass Transition Temperature <sup>1</sup> | > 50.0                             | °C       |
| CLTE - Flow                               |                                    |          |
| -- <sup>2</sup>                           | 6.1E-5                             | cm/cm/°C |
| -- <sup>3</sup>                           | 1.9E-4                             | cm/cm/°C |
| Optical                                   | Nominal Value                      | Unit     |
| Transmittance                             |                                    |          |
| 300 to 960 nm                             | < 2.0                              | %        |
| 980 to 1260 nm                            | < 5.0                              | %        |
| Thermoset                                 | Nominal Value                      | Unit     |
| Thermoset Components                      |                                    |          |
| Part A                                    | Mix Ratio by Weight: 1.0           |          |
| Part B                                    | Mix Ratio by Weight: 1.0           |          |
| Shelf Life (23°C)                         | 52                                 | wk       |
| Additional Information                    | Nominal Value                      | Unit     |
| Degradation Temperature                   | 343                                | °C       |
| Die Shear Strength - > 10 kg (23°C)       | 23.4                               | MPa      |

|                                |  |                   |
|--------------------------------|--|-------------------|
| Operating Temperature          |  |                   |
| Continuous                     | -55 to 150   | °C                |
| Intermittent                   | -55 to 250   | °C                |
| Storage Modulus                | 896  | MPa               |
| Weight Loss on Heating (200°C) | 1.0  | %                 |
| Uncured Properties             | Nominal Value  | Unit              |
| Color                          |  |                   |
| -- 4                           | Black  |                   |
| -- 5                           | Yellow   |                   |
| Density                        |  |                   |
| Part B                         | 0.968  | g/cm <sup>3</sup> |
| Part A                         | 1.17   | g/cm <sup>3</sup> |
| Viscosity <sup>6</sup> (23°C)  | 10 to 14   | Pa·s              |
| Curing Time (80°C)             | 2.0  | hr                |
| Pot Life                       | 60   | min               |
| Cured Properties               | Nominal Value  | Unit              |
| Shore Hardness (Shore D)       | 76   |                   |
| Lap Shear Strength (23°C)      | > 13.8   | MPa               |
| Relative Permittivity (1 kHz)  | 3.24   |                   |
| Volume Resistivity (23°C)      | > 4.0E+13  | ohms·cm           |
| Dissipation Factor (1 kHz)     | 9.0E-3   |                   |
| NOTE                           |  |                   |
| 1.                             | Dynamic Cure 20-200°C/ISO 25<br>Min; Ramp -10-200°C @ 20°C/Min |                   |
| 2.                             | Below Tg   |                   |
| 3.                             | Above Tg   |                   |
| 4.                             | Part A   |                   |
| 5.                             | Part B   |                   |
| 6.                             | 20 rpm   |                   |

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