

Epoxy Technology EPO-TEK® 730 General Purpose Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Product Description: EPO-TEK® 730 is a two component, thixotropic, room temperature-curing epoxy adhesive. **Advantages & Application Notes:** Excellent all purpose adhesive. Many uses in job shop and repair businesses, home or household, outdoor, recreation, camping, automotive, boating; and industrial use such as filtration and metal working. Designed for those applications where a limited amount of flow is desirable. Capillary forces do not pull the epoxy out of alignment. The paste-like appearance allows it to be spread by hand using a spatula or blade, by dispensing equipment, or specialty packaging. The 1:1 mix ratio allows it to be easily mixed by volume or by weight. Used in the fabrication of X-ray sensors. Adheres to metal foils and substrates, especially lead. Available in black and in different viscosities. Excellent adhesion to foam/plastics; especially those used in filtration applications. Medical grade suggested applications: Has passed the requirements of USP Class VI Biocompatibility Standards for implantation devices. Excellent adhesion to stainless steel. Suitable for adhesive and sealing. Suggested for LCD plug-seal or end-seal, due to its high viscosity nature and room temperature cure. Can be used for joining SMDs to PCB, for staking applications, or double sided PCB. It has wet, ?green strength? before cure. In many cases, the thixotropic nature of the adhesive will hold parts in place without special fixtures while the hardening process is taking place. Very popular epoxy for wood-working applications. Versatility in curing options between 23°C and 100°C Information Provided by Epoxy Technology

Order this product through the following link:

http://www.lookpolymers.com/polymer_Epoxy-Technology-EPO-TEK-730-General-Purpose-Epoxy.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------------|----------------------|----------|
| Specific Gravity | 0.940 g/cc | 0.940 g/cc | Part B |
| | 1.12 g/cc | 1.12 g/cc | Part A |
| Particle Size | <= 20 µm | <= 20 µm | |
| Viscosity | 80000 - 120000 cP | 80000 - 120000 cP | 2.5 rpm |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|----------|
| Hardness, Shore D | 64 | 64 | |
| Tensile Modulus | 0.852 GPa | 124 ksi | Storage |
| Shear Strength | >= 13.8 MPa | >= 2000 psi | Lap |
| | >= 23.4 MPa | >= 3400 psi | Die |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------|----------------|----------|
| CTE, linear | 66.0 µm/m-°C | 36.7 µin/in-°F | Below Tg |
| | 248 µm/m-°C | 138 µin/in-°F | Above Tg |

| Maximum Service Temperature, Air Thermal Properties | 150 °C Metric | 302 °F English | Continuous Comments |
|---|------------------|-------------------|--|
| | 250 °C | 482 °F | Intermittent |
| Minimum Service Temperature, Air | -55.0 °C | -67.0 °F | Continuous |
| | -55.0 °C | -67.0 °F | Intermittent |
| Glass Transition Temp, Tg | >= 55.0 °C | >= 131 °F | Dynamic Cure 20–200°C /ISO 25 Min; Ramp 10–200°C @ 20°C/Min |
| Decomposition Temperature | 367 °C | 693 °F | Degradation Temperature |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------|
| Volume Resistivity | <= 3.00e+13 ohm-cm | <= 3.00e+13 ohm-cm | |
| Dielectric Constant | 3.17 | 3.17 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |
| Dissipation Factor | 0.021 | 0.021 | |
| | @Frequency 1000 Hz | @Frequency 1000 Hz | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------|----------------------|-------------------|
| Cure Time | 30.0 min | 0.500 hour | Minimum Bond Line |
| | @Temperature 100 °C | @Temperature 212 °F | |
| | 1440 min | 24.0 hour | Minimum Bond Line |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Pot Life | 60 min | 60 min | |
| Shelf Life | 12.0 Month | 12.0 Month | |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|--------------|----------|
| Color | Tan | Part A |
| | Tan | Part B |
| Consistency | Smooth paste | |
| Mix Ratio By Weight | 1:1 | |
| Number of Components | Two | |
| Thixotropic Index | 2.1 | |
| Weight Loss | | 200°C |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| | 2.22% | 250°C |
| | 4.16% | 300°C |

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