

# EASYPOXY® K-45

Epoxy; Epoxide

Cytec Industries Inc.

## Message:

EASYPOXY K-45 is a 100% solids two-component paste adhesive that is mixed at a 1-to-1 ratio by weight or by volume and offers a quick set time of 4-6 minutes at room temperature. EASYPOXY K-45 is designed for bonding steel, aluminum, glass, wood, cork, fabrics, ceramics, and most hard plastics. Electrical insulation properties of EASYPOXY K-45 are good and it has good optical clarity in thin bond lines.

| General Information                         |               |                   |
|---|---------------|-------------------|
| Features                                    | High Clarity  |                   |
| Uses  | Adhesives     |                   |
|   | Bonding       |                   |
| Appearance                                  | Amber         |                   |
|   | Clear Amber   |                   |
| Forms                                       | Paste         |                   |
| Physical                                    | Nominal Value | Unit              |
| Specific Gravity                            |               |                   |
| -- <sup>1</sup>                             | 1.16          | g/cm <sup>3</sup> |
| -- <sup>2</sup>                             | 1.19          | g/cm <sup>3</sup> |
| Molding Shrinkage - Flow                    | 1.0           | %                 |
| Water Absorption <sup>3</sup> (25°C, 24 hr) | 1.3           | %                 |
| Solids Content                              |               |                   |
| Part A - Resin                              | 100           | %                 |
| Part B - Hardener                           | 100           | %                 |
| Viscosity                                   |               |                   |
| Part A - Resin : 25°C                       | Light Paste   |                   |
| Part B - Hardener : 25°C                    | Light paste   |                   |
| Fungal Resistance                           | Non-nutrient  |                   |
| Hardness                                    | Nominal Value | Unit              |
| Durometer Hardness (Shore D)                | 85            |                   |
| Mechanical                                  | Nominal Value | Unit              |
| Tensile Strength                            |               |                   |
| --  | 20.7          | MPa               |
| -55°C <sup>4</sup>                          | 12.4          | MPa               |
| 25°C <sup>5</sup>                           | 17.4          | MPa               |
| 82°C <sup>6</sup>                           | 3.03          | MPa               |
| Flexural Strength                           | 53.8          | MPa               |
| Compressive Strength                        | 103           | MPa               |
| Thermal                                     | Nominal Value | Unit              |

|                                   |                          |         |
|-----------------------------------|--------------------------|---------|
| Thermal Conductivity              | 0.21                     | W/m/K   |
| Electrical                        | Nominal Value            | Unit    |
| Volume Resistivity (25°C)         | 2.5E+14                  | ohms·cm |
| Dielectric Constant (25°C, 1 kHz) | 4.10                     |         |
| Dissipation Factor (25°C, 1 kHz)  | 0.018                    |         |
| Thermoset                         | Nominal Value            | Unit    |
| Thermoset Components              |                          |         |
| Hardener                          | Mix Ratio by Weight: 100 |         |
| Resin                             | Mix Ratio by Weight: 100 |         |
| Pot Life (25°C)                   | 4.0 to 6.0               | min     |
| Shelf Life                        | 78                       | wk      |
| Demold Time                       |                          |         |
| 25°C                              | 1400                     | min     |
| 65°C                              | 60                       | min     |
| NOTE                              |                          |         |
| 1.                                | Resin                    |         |
| 2.                                | Hardener                 |         |
| 3.                                | Immersion                |         |
| 4.                                | Etched AL/AL             |         |
| 5.                                | Etched AL/AL             |         |
| 6.                                | Etched AL/AL             |         |

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