

CONATHANE® EN-3010

Polyurethane
Cytec Industries Inc.

Message:

CONATHANE EN-3010 is a filled, two-component polyurethane system formulated for surface mount technology (SMT) applications. CONATHANE EN-3010 has been tested by Underwriters Laboratories to be RoHS compliant and recognized to UL 94V-0.

| General Information | | | |
|-----------------------------------|--------------------------|-------------------|-------------|
| Features | Filled | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Amber | | |
| | Black | | |
| | | | |
| Physical | Nominal Value | Unit | |
| Specific Gravity | | | |
| -- ¹ | 1.30 | g/cm ³ | |
| -- ² | 1.60 | g/cm ³ | |
| Hardness | Nominal Value | Unit | |
| Durometer Hardness (Shore A) | 70 | | |
| Elastomers | Nominal Value | Unit | |
| Tensile Stress (100% Strain) | 5.79 | MPa | |
| Tensile Strength | 7.27 | MPa | |
| Tensile Elongation (Break) | 170 | % | |
| Tear Strength | 19.8 | kN/m | |
| Thermal | Nominal Value | Unit | |
| Thermal Conductivity | 0.41 | W/m/K | |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 6.2E+15 | ohms | |
| Volume Resistivity (25°C) | 1.5E+14 | ohms · cm | |
| Dielectric Strength | 27 | kV/mm | |
| Dielectric Constant (25°C, 1 kHz) | 6.29 | | |
| Dissipation Factor (25°C, 1 kHz) | 0.064 | | |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (6.30 mm) | V-0 | | UL 94 |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |
| Hardener | Mix Ratio by Weight: 100 | | |
| Resin | Mix Ratio by Weight: 40 | | |
| Thermoset Mix Viscosity (25°C) | 5000 | cP | |
| Cured Properties | Nominal Value | Unit | |

| | | |
|------------------|----------|---|
| Linear Shrinkage | 13 | % |
| NOTE | | |
| 1. | Resin | |
| 2. | Hardener | |

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