

CONAP® AD-6405

Polyurethane
Cyttec Industries Inc.

Message:

CONAP AD-6405 is a two-component, non-TDI, liquid polyurethane casting system produced under very carefully controlled conditions. This elastomeric system features excellent toughness, water resistance, and physical properties.

CONAP AD-6405 is recommended as a general purpose potting compound, sealant, or adhesive for medical applications, particularly where good penetration, hydrolytic stability, low exotherm, low shrinkage, and good cutting properties are required.

| General Information | | | |
|---|---------------------------------|-------------------|-------------|
| Features | Good Toughness | | |
| | Hydrolytically Stable | | |
| | Low Exotherm | | |
| | Low Shrinkage | | |
| Uses | Adhesives | | |
| | General Purpose | | |
| | Medical/Healthcare Applications | | |
| | Sealants | | |
| Appearance | Amber | | |
| | Clear/Transparent | | |
| Forms | Liquid | | |
| Processing Method | Potting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | | | ASTM D1475 |
| -- ¹ | 0.970 | g/cm ³ | |
| -- ² | 1.15 | g/cm ³ | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A ³ | 95 | | |
| Shore A ⁴ | 44 | | |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength ⁵ | 22.1 | MPa | ASTM D412 |
| Tensile Elongation ⁶ (Break) | 150 | % | ASTM D412 |
| Tear Strength ⁷ | 78.8 | kN/m | ASTM D624 |
| Thermoset | Nominal Value | Unit | |
| Thermoset Components | | | |
| Hardener | Mix Ratio by Weight: 100 | | |
| Resin | Mix Ratio by Weight: 100 | | |


| | | |
|-------------------------|-------------------------|----|
| Thermoset Mix Viscosity | | |
| 25°C | 4000 | cP |
| 50°C | 900 | cP |
| NOTE | | |
| 1. | Hardener | |
| 2. | Resin | |
| 3. | Fully Cured | |
| 4. | After 30 minutes @ 60°C | |
| 5. | Die C | |
| 6. | Die C | |
| 7. | Die C | |

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