

Abatron AboCast 7703-21/AboCure 7703-24 (D) Epoxy Adhesive and Casting Compound

Category : Polymer , Thermoset , Epoxy , Epoxy, Cast, Unreinforced

Material Notes:

AboCast 7703-21/AboCure 7703-21 is an all-purpose clear, low-viscosity, variable-ratio epoxy adhesive and casting compound for electric and structural applications. As an Adhesive: it bonds permanently to metal, wood, glass, fiberglass, ceramics, rigid plastics, concrete, marble, stones, and jewelry. It is excellent to laminate fiberglass, metal sheets, paper or canvas, or any other material for composite structures. As a Dielectric: widely used for potting, encapsulating, dipping, insulating circuits, chips, and other components. As a Casting Resin: for filling, embedments, reproductions, tooling (as is, or blended with fillers such as metal powders, sawdust, etc.). This compound is virtually unaffected by average ambient conditions, soft and salt water, alkalis and diluted acids, several solvents, detergents, oils and greases. Final properties can be modified by changing the AboCast/AboCure ratios: the highest rigidity, hardness, chemical and heat resistance are offered by the 1400/40 ratio. Higher AboCure ratios (up to 100/100 parts AboCast/AboCure) yield increasing flexibility, shock and thermocycling resistance, and adhesion to problem surfaces. The 7703-21 System develops tenacious adhesion to metals, ceramics, wood, fiberglass, masonry, and most materials to form permanent structural and dielectric bonds. Radiation resistance recommends the 7703-21 System in X-ray and other radioactive environments.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Abatron-AboCast-7703-21AboCure-7703-24-D-Epoxy-Adhesive-and-Casting-Compound.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------|---------|----------|
| Viscosity | 1800 cP | 1800 cP | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|---------------|----------|
| Hardness, Shore D | 78 | 78 | |
| Tensile Strength, Ultimate | 37.9 MPa | 5500 psi | |
| Elongation at Break | 15.1 % | 15.1 % | |
| Izod Impact, Notched | 0.598 J/cm | 1.12 ft-lb/in | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|---------------------------------|
| Maximum Service Temperature, Air | 50.0 °C | 122 °F | Deflection Temp at unknown load |

| Electrical Properties | Metric | English | Comments |
|-----------------------|----------------------|---------------------|----------|
| Volume Resistivity | <= 1.00e+9 ohm-cm | <= 1.00e+9 ohm-cm | |
| | @Temperature 93.0 °C | @Temperature 199 °F | |
| | 7.80e+9 ohm-cm | 7.80e+9 ohm-cm | |
| | @Temperature 66.0 °C | @Temperature 151 °F | |

| Electrical Properties | 8.80e+13 ohm-cm Metric | 8.80e+13 ohm-cm English | Comments |
|-----------------------|---------------------------|----------------------------|----------|
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| Dielectric Constant | 3.61 | 3.61 | |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |
| Dissipation Factor | 0.036 | 0.036 | |
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Pot Life | 80 - 120 min | 80 - 120 min | |

| Descriptive Properties | Value | Comments |
|------------------------|----------|----------|
| Hardening Time (min) | 60-243 | castings |
| | 720-2883 | adhesive |
| Parts by Weight (pbw) | 100 | AboCast |
| | 82 | AboCure |

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