

Lord Adhesives Thermoset,ç UR-340 Two Component Urethane Encapsulant

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

Lord UR-340 is a two component, room temperature curing, urethane encapsulating compound. It is low in viscosity and has excellent flow characteristics. Its flexibility, low modulus characteristics, and very good electrical properties make it a good choice for encapsulating sensitive electronic components. UR-340 is often suitable in applications operating up to 130°C. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-UR-340-Two-Component-Urethane-Encapsulant.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|----------------------|
| Specific Gravity | 0.970 g/cc | 0.970 g/cc | Resin; ASTM D1505 |
| | 1.00 g/cc | 1.00 g/cc | Mixed; ASTM D1505 |
| | 1.02 g/cc | 1.02 g/cc | Hardener; ASTM D1505 |
| Water Absorption | 0.21 % | 0.21 % | ASTM D570 |
| | @Temperature 25.0 Å°C, Time 86400 sec | @Temperature 77.0 Å°F, Time 24.0 hour | |
| Loss On Ignition | 0.57 % | 0.57 % | |
| | @Temperature 125 Å°C, Time 605000 sec | @Temperature 257 Å°F, Time 168 hour | |
| Viscosity | 90 - 130 cP | 90 - 130 cP | Hardener; STM 1 |
| | @Temperature 25.0 Å°C | @Temperature 77.0 Å°F | |
| | 400 - 500 cP | 400 - 500 cP | Mixed; STM 1 |
| | @Temperature 25.0 Å°C | @Temperature 77.0 Å°F | |
| | 900 - 1300 cP | 900 - 1300 cP | Resin; STM 1 |
| | @Temperature 25.0 Å°C | @Temperature 77.0 Å°F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|----------|------------|
| Hardness, Shore A | 25 - 35 | 25 - 35 | ASTM D2240 |
| Tensile Strength, Yield | 0.434 MPa | 63.0 psi | ASTM D638 |
| Elongation at Yield | 68 % | 68 % | ASTM D638 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Maximum Service Temperature, Air Thermal Properties | 130 Â°C Metric | 266 Â°F English | Comments |
|---|-------------------|--------------------|----------|
| Glass Transition Temp, Tg | -46.0 Â°C | -50.8 Â°F | DMTA |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Volume Resistivity | 2.40e+11 ohm-cm | 2.40e+11 ohm-cm | ASTM D257 |
| Dielectric Constant | 3.96 @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C | 3.96 @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F | ASTM D150 |
| Dielectric Strength | >= 19.7 kV/mm | >= 500 kV/in | ASTM D149 |
| Dissipation Factor | 0.11 @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C | 0.11 @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F | ASTM D150 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--|--|------------------------|
| Cure Time | 120 - 240 min @Temperature 66.0 Â°C | 2.00 - 4.00 hour @Temperature 151 Â°F | |
| | 1440 min @Temperature 25.0 Â°C | 24.0 hour @Temperature 77.0 Â°F | |
| Pot Life | 20 min @Temperature 25.0 Â°C | 20 min @Temperature 77.0 Â°F | Based on 100 gram mass |
| Gel Time | 40.0 - 50.0 min @Temperature 25.0 Â°C | 40.0 - 50.0 min @Temperature 77.0 Â°F | 100 gram mass |
| Shelf Life | 6.00 Month @Temperature 25.0 Â°C | 6.00 Month @Temperature 77.0 Â°F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------------|-----------|
| Appearance | Black | Resin |
| | Black | Mixed |
| | Light Amber | Hardener |
| Mix Ratio | 1:1 | by volume |

| Descriptive Properties | Value 100:104 | Comments By Weight |
|------------------------|------------------|-----------------------|
|------------------------|------------------|-----------------------|

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