

BCC Products BC 6060 Epoxy Surface Coat/Casting

Category : Polymer , Thermoset , Epoxy

Material Notes:

BC 6060 is a blue epoxy, abrasion resistant surfacing resin. Commonly referred to as "die surface" material, this system may be applied by brush or if preferred, cast in thin sections to a maximum of ½". Ideally suited for a variety of applications, BC 6060 is recommended for dies, foundry pattern and core boxes, router, trim and inspection fixtures. Information provided by BCC Products, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BCC-Products-BC-6060-Epoxy-Surface-CoatCasting.php

| Physical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|----------------------------------|---------------|
| Specific Gravity | 1.76 g/cc | 1.76 g/cc | |
| Brookfield Viscosity | 25000 cP @Temperature 23.9 °C | 25000 cP @Temperature 75.0 °F | Mixed |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in | ASTM D2566-69 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------|----------------------------|----------|
| Hardness, Shore D | 89 @Temperature 23.9 °C | 89 @Temperature 75.0 °F | |
| Tensile Strength, Ultimate | 49.6 MPa | 7200 psi | |
| Flexural Strength | 61.4 MPa | 8900 psi | |
| Compressive Strength | 113 MPa | 16400 psi | |

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 70.0 °C | 158 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------------------------------|--|------------|
| Cure Time | 720 - 960 min @Temperature 24.0 °C | 12.0 - 16.0 hour @Temperature 75.2 °F | |
| Pot Life | 30 - 35 min @Temperature 24.0 °C | 30 - 35 min @Temperature 75.2 °F | 4 oz. mass |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Machinability | Poor | |

| Mix Ratio | 100:9 by weight, 100:15 by volume, resin/harder | |
|------------------------|---|----------|
| Descriptive Properties | Value | Comments |

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