

3M Scotch-Weld™ TE230 Black Polyurethane Reactive Adhesive

Category : Polymer , Adhesive

Material Notes:

3M™ Scotch-Weld™ Polyurethane Reactive Adhesives are a family of one-component, moisture curing, urethane adhesives. These adhesives are applied warm and bond a wide variety of substrates such as wood, fiber reinforced plastic (FRP) and many other plastics to themselves, to metal and glass. Sprayable/extrudable grade adhesive with long set time ideal for bonding a wide variety of plastics including polystyrene and polyacrylic. Bonds aluminum and glass to plastic and wood. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-TE230-Black-Polyurethane-Reactive-Adhesive.php

| Physical Properties | Metric | English | Comments |
|----------------------|--------------|------------------------------|-----------------------------|
| Density | >= 1.09 g/cc | >= 0.0394 lb/in ³ | |
| Brookfield Viscosity | 84000 cP | 84000 cP | Thermosel using spindle #27 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------|----------------------|---|
| Hardness, Shore D | 42 | 42 | |
| Tensile Strength at Break | 22.1 MPa | 3210 psi | ASTM D638 Die C |
| Elongation at Break | 825 % | 825 % | ASTM D638 Die C |
| Tensile Modulus | 0.0207 GPa | 3.00 ksi | ASMT D638 Die C |
| Shear Strength | 1.27 MPa | 184 psi | Overlap, Polycarbonate |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 3.10 MPa | 450 psi | Overlap, Maple |
| | @Temperature 82.0 °C | @Temperature 180 °F | |
| | 4.76 MPa | 690 psi | Overlap, Polystyrene, Substrate Failure |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 4.83 MPa | 700 psi | Overlap, FRP |
| | @Temperature 82.0 °C | @Temperature 180 °F | |
| | 9.24 MPa | 1340 psi | Overlap, Polyacrylic, Substrate Failure |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 9.65 MPa | 1400 psi | Overlap, ABS, Substrate Failure |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 10.3 MPa | 1500 psi | Overlap, Maple |

| Mechanical Properties | @Temperature 23.0 °C Metric | @Temperature 73.4 °F English | Comments |
|-----------------------|--------------------------------|---------------------------------|--|
| | 14.5 MPa | 2110 psi | Overlap, PVC, Substrate Failure |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 21.4 MPa | 3100 psi | Overlap, FRP |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Peel Strength | 7.89 kN/m | 45.0 pli | 180°, Polystyrene |
| | 7.89 kN/m | 45.0 pli | 180°, Glass |
| | 8.24 kN/m | 47.0 pli | 180°, Polyacrylic |
| | 8.24 kN/m | 47.0 pli | 180°, ABS |
| | 8.41 kN/m | 48.0 pli | 180°, Aluminum |
| | 13.7 kN/m | 78.0 pli | 180°, FRP, Cotton duck failed during testing |
| | 15.8 kN/m | 90.0 pli | 180°, PVC, Cotton duck failed during testing |
| | 17.7 kN/m | 101 pli | 180°, Polycarbonate, Cotton duck failed during testing |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------|---------|----------|
| Maximum Service Temperature, Air | 121 °C | 250 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------|-------------|----------|
| Cure Time | 2.50 min | 0.0417 hour | Set Time |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Appearance | Black | |

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