

3M Scotch-Weld™ 4491 Nitrile Industrial Adhesive

Category : Polymer , Adhesive

Material Notes:

Features: Low viscosity grade for spray applicationFast dryingProvides strong, flexible bondsResists weathering, water, fuels, oil and plasticizersBonds vinyl extrusions and sheeting (May stain light colored vinyls)Also bonds fabrics, leather, foams and many plastics (Not recommended for polyolefin plastic bonding)May be heat cured to obtain superior physical properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-4491-Nitrile-Industrial-Adhesive.php

| Physical Properties | Metric | English | Comments |
|----------------------|--------------|--------------|---------------------------|
| Solids Content | 22 - 26 % | 22 - 26 % | |
| Brookfield Viscosity | 200 - 325 cP | 200 - 325 cP | RVF #2 sp @ 20 rpm @ 27°C |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|--|------------------------------------|--------------------|
| Shear Strength | 3.22 MPa | 467 psi | Overlap, Alum/Alum |
| | @Temperature 121 °C | @Temperature 250 °F | |
| | 4.19 MPa | 607 psi | Overlap, Alum/Alum |
| | @Temperature 93.0 °C | @Temperature 199 °F | |
| | 4.43 MPa | 643 psi | Overlap, Alum/Alum |
| | @Temperature 82.0 °C | @Temperature 180 °F | |
| | 6.18 MPa | 897 psi | Overlap, Alum/Alum |
| | @Temperature 66.0 °C | @Temperature 151 °F | |
| 9.005 MPa | 1306 psi | Overlap, Alum/Alum | |
| @Temperature 24.0 °C | @Temperature 75.2 °F | | |
| Peel Strength | 20.61 MPa | 2989 psi | Overlap, Alum/Alum |
| | @Temperature -55.0 °C | @Temperature -67.0 °F | |
| | 23.50 MPa | 3409 psi | Overlap, Alum/Alum |
| | @Temperature -34.0 °C | @Temperature -29.2 °F | |
| | 0.614 kN/m | 3.50 pli | 180°, Canvas/Steel |
| | @Temperature 82.0 °C, Time 1.81e+6 sec | @Temperature 180 °F, Time 504 hour | |
| | 1.23 kN/m | 7.00 pli | 180°, Canvas/Steel |
| | @Temperature 66.0 °C, Time 1.81e+6 sec | @Temperature 151 °F, Time 504 hour | |

| Mechanical Properties | Metric ^{l/m} | English | Comments |
|-----------------------|--|---|--------------------|
| | @Temperature 24.0 °C, Time 86400 sec | @Temperature 75.2 °F, Time 24.0 hour | 180°, Canvas/Steel |
| | 3.07 kN/m | 17.5 pli | |
| | @Temperature -34.0 °C, Time 1.81e+6 sec | @Temperature -29.2 °F, Time 504 hour | 180°, Canvas/Steel |
| | 4.12 kN/m | 23.5 pli | |
| | @Temperature 24.0 °C, Time 432000 sec | @Temperature 75.2 °F, Time 120 hour | 180°, Canvas/Steel |
| | 4.56 kN/m | 26.0 pli | |
| | @Temperature 24.0 °C, Time 259000 sec | @Temperature 75.2 °F, Time 72.0 hour | 180°, Canvas/Steel |
| | 4.82 kN/m | 27.5 pli | |
| | @Temperature 24.0 °C, Time 605000 sec | @Temperature 75.2 °F, Time 168 hour | 180°, Canvas/Steel |
| | 5.26 kN/m | 30.0 pli | |
| | @Temperature 24.0 °C, Time 1.81e+6 sec | @Temperature 75.2 °F, Time 504 hour | 180°, Canvas/Steel |
| | 5.43 kN/m | 31.0 pli | |
| | @Temperature 24.0 °C, Time 1.21e+6 sec | @Temperature 75.2 °F, Time 336 hour | 180°, Canvas/Steel |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------|-----------|----------|
| Flash Point | -18.0 °C | -0.400 °F | TCC |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------|----------|
| Appearance | light tan | |
| Base | Synthetic elastomer | |

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