

3M 468MP High Performance Adhesive Transfer Tapes with Adhesive 200MP

Category : Polymer , Adhesive

Material Notes:

3M™ High Performance Acrylic Adhesive 200MP is a popular choice for graphic attachment and membrane switch applications because it has excellent quality, consistency and durability. In addition, as a result of 3M's innovative, proprietary process, 3M™ Adhesive 200MP also offers the following excellent performance characteristics. Clarity (virtually free of vapor inclusions that are commonly found in adhesives produced by the traditional solvent coating technique). Excellent high temperature performance as well as excellent shear strength (that minimizes edge lifting and slippage of parts). Excellent resistance to harsh environments; this adhesive can withstand splashes of organic solvents, weak acids and bases and salt water, cleaning solutions, germicides, disinfectants, oils, etc. In addition, it performs well after exposure to humidity and hot/cold cycles. Provides some initial repositionability when bonding to plastic parts (not metal) which allows graphic parts to be lifted and repositioned if initial alignment is incorrect. Finally, this adhesive family is provided with a variety of liner configurations to help ensure excellent process flexibility. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-468MP-High-Performance-Adhesive-Transfer-Tapes-with-Adhesive-200MP.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------|----------|----------|
| Thickness | 132 microns | 5.20 mil | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------------|----------------------------------|---|
| Tensile Strength at Break | 0.352 MPa | 51.1 psi | ASTM D2370-82 |
| | 0.752 MPa @Thickness 0.127 mm | 109 psi @Thickness 0.00500 in | Tensile Lap Shear – Peak Stress; ASTM D1002-72 |
| Elongation at Break | 1915 % | 1915 % | ASTM D2370-82 |
| | @Thickness 0.127 mm | @Thickness 0.00500 in | |
| Peel Strength | 0.51494 kN/m | 2.9375 pli | to Stainless Steel, 90° peel, 2 mil aluminum foil backing, 15 minute room temperature |
| | 0.570 kN/m | 3.25 pli | 72 hour RT rigid PVC (unplasticized), 90° peel, 2 mil aluminum foil backing |
| | 0.6355 kN/m | 3.625 pli | 72 hour RT polycarbonate, 90° peel, 2 mil aluminum foil backing |
| | 0.66833 kN/m | 3.8125 pli | 72 hour RT acrylic, 90° peel, 2 mil aluminum foil backing |
| | 0.6793 kN/m | 3.875 pli | 72 hour RT ABS, 90° peel, 2 mil aluminum foil backing |
| | 0.71216 kN/m | 4.0625 pli | 72 hour RT polycarbonate, 90° peel, 5 mil aluminum foil backing |
| | 0.7231 kN/m | 4.125 pli | to Stainless Steel, 90° peel, 5 mil aluminum foil backing, 15 minute |

| Mechanical Properties | Metric | English | room temperature Comments |
|-----------------------|--------------|------------|---|
| | 0.73407 kN/m | 4.1875 pli | 72 hour RT acrylic, 90° peel, 5 mil aluminum foil backing |
| | 0.745 kN/m | 4.25 pli | 72 hour RT ABS, 90° peel, 5 mil aluminum foil backing |
| | 0.75598 kN/m | 4.3125 pli | 72 hour RT rigid PVC (unplasticized), 90° peel, 5 mil aluminum foil backing |
| | 0.84363 kN/m | 4.8125 pli | to Stainless Steel, 72 hour RT - 180° peel, 2 mil al foil |
| | 0.84363 kN/m | 4.8125 pli | 72 hour RT aluminum, 90° peel, 2 mil aluminum foil backing |
| | 0.877 kN/m | 5.00 pli | 72 hour RT glass, 90° peel, 2 mil aluminum foil backing |
| | 0.8984 kN/m | 5.125 pli | to Stainless Steel, 90° peel, 2 mil aluminum foil backing, 72 hour RT |
| | 1.01 kN/m | 5.75 pli | 72 hour RT glass, 90° peel, 5 mil aluminum foil backing |
| | 1.2600 kN/m | 7.1875 pli | 72 hour RT aluminum, 90° peel, 5 mil aluminum foil backing |
| | 1.293 kN/m | 7.375 pli | to Stainless Steel, 90° peel, 5 mil aluminum foil backing, 72 hour RT |
| | 1.4572 kN/m | 8.3125 pli | to Stainless Steel, 72 hour RT - 180° peel, 5 mil al foil |
| | 1.84 kN/m | 10.5 pli | to Stainless Steel, 90° peel, 2 mil aluminum foil backing, 72 hour 158°F (70°C) |
| | 1.983 kN/m | 11.31 pli | to Stainless Steel, 90° peel, 5 mil aluminum foil backing, 72 hour 158°F (70°C) |

| Thermal Properties | Metric | English | Comments |
|--------------------|---|---|-------------------------|
| CTE, linear | -6.00 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | -3.33 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | first heat; ASTM D 696 |
| | @Thickness 0.0508 mm | @Thickness 0.00200 in | |
| | 28.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 15.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | first heat; ASTM D 696 |
| | @Thickness 0.0508 mm | @Thickness 0.00200 in | |
| | 72.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 40.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | second heat; ASTM D 696 |
| | @Thickness 0.127 mm | @Thickness 0.00500 in | |
| | 92.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 51.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | second heat; ASTM D 696 |
| | @Thickness 0.127 mm | @Thickness 0.00500 in | |

| Thermal Properties | Metric | English | Comments |
|----------------------|----------------------|------------------------------------|----------|
| Thermal Conductivity | 0.170 W/m-K | 1.25 BTU-in/hr-ft ² -°F | |
| | @Thickness 0.0508 mm | @Thickness 0.00200 in | |
| | 0.180 W/m-K | 1.25 BTU-in/hr-ft ² -°F | |
| | @Thickness 0.127 mm | @Thickness 0.00500 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---|--|--|
| Dielectric Strength | 23.6 kV/mm | 600 kV/in | ASTM D149-92 |
| | @Thickness 0.127 mm | @Thickness 0.00500 in | |
| | 34.6 kV/mm | 880 kV/in | 500 vac, rms [60 hz/sec]; ASTM D149-92 |
| | @Thickness 0.0508 mm | @Thickness 0.00200 in | |
| Dielectric Breakdown | 1760 V | 1760 V | ASTM D 150-92 |
| | @Thickness 0.0508 mm, Frequency 1000 Hz | @Thickness 0.00200 in, Frequency 1000 Hz | |
| | 3000 V | 3000 V | ASTM D 150-92 |
| | @Thickness 0.127 mm, Frequency 1000 Hz | @Thickness 0.00500 in, Frequency 1000 Hz | |
| Dissipation Factor | 0.021 | 0.021 | |
| | @Thickness 0.0508 mm | @Thickness 0.00200 in | |
| | 0.022 | 0.022 | |
| | @Thickness 0.127 mm | @Thickness 0.00500 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------|------------|----------|
| Shelf Life | 18.0 Month | 18.0 Month | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Appearance | Clear | |

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