

Double Coated Mounting Tapes Product Information
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AFT Series Mounting Tapes

Technical Bulletin



DESCRIPTION:

AFT series from IPG is a double-sided aggressive pressure-sensitive acrylic formulation that is engineered to bond to almost any surface. AFT is highly flexible and conforms well to curves with the ability to flex as needed in dynamic applications that are subject to contortion and bending.

AFT has a foam core that provides unique shock absorption and vibration dampening properties. This tape has excellent resistance to solvents and temperature variation. Intended for permanent applications and eliminates the need for conventional fasteners.

AFT 450 W - PHYSICAL PROPERTIES

Adhesive Acrylic
Backing Acrylic Foam
Color White
Adhesion to Steel (oz/in. width)
Room Temp x 20 minutes 179 (18.9 N/25mm)
Room Temp x 24 hours 224 (61.3 N/25mm)
80°C (176°F) x 250 hours 170 (46.5 N/25mm)
-20°C (-4°F) x 250 hours 152 (41.5 N/25mm)
Static Shear Adhesion to Steel (7 days)
3.22cm (1.25") x 1500g @ 23°C (73°F) Pass
3.22cm (1.25") x 500g @ 93°C (200°F) Pass
Dynamic Shear Adhesion to Steel (oz/in. width)
(10mm x 10mm @ 200mm / minute removal speed)
@ Room Temp x 20 minutes 868 (237 N/25mm)
@ Room Temp x 24 hours 868 (237 N/25mm)
@ Room Temp x 48 hours 895 (245 N/25mm)
@ Room Temp / 100% RH x 250 hours 877 (240 N/25mm)
@ 80°C (176°F) x 250 hours 913 (250 N/25mm)
@ -20°C (-4°F) x 250 hours 806 (220 N/25mm)
Temperature Resistance - Short Term +250°F (121°C)
20mm x 20mm x 500g (to Stainless Steel)
Total Thickness w/o Liner (mils) 45 (1.14 mm)
Liner Type / Thickness (mils) PE - Red 4.8 (0.12 mm)

AFT 450 G - PHYSICAL PROPERTIES

Adhesive Acrylic
Backing Acrylic Foam
Color Grey
Adhesion to Steel (oz/in. width)
Room Temp x 30 minutes 188 (51 N/25mm)
80°C (176°F) x 30 minutes 197 (54 N/25mm)
-20°C (-4°F) x 30 minutes 143 (39 N/25mm)
Static Shear Adhesion to Steel (1 hour)
20mm x 20mm x 1 kg @ 120°C (248°F) Pass
Dynamic Shear Adhesion to Steel (oz/in. width)
(10mm x 10mm @ 200mm / minute removal speed)
@ Room Temp x 30 minutes 868 (237 N/25mm)
@ Room Temp x 24 hours 868 (237 N/25mm)
@ 80°C (176°F) x 30 minutes 985 (269 N/25mm)
@ -20°C (-4°F) x 30 minutes 899 (246 N/25mm)
@ 80°C (176°F) x 250 hours 940 (257 N/25mm)
@ -20°C (-4°F) x 250 hours 794 (217 N/25mm)
Chemical Resistance - Short Term - Gasoline, Wax, Saline
Total Thickness w/o Liner (mils) 45 (1.14 mm)
Liner Type / Thickness (mils) PE - Red 4.8 (0.12 mm)

AFT 200 C - PHYSICAL PROPERTIES

Adhesive Acrylic
Backing Acrylic Foam
Color Transparent
Adhesion to Steel (oz/in. width)
Room Temp x 30 minutes 116 (31.7 N/25mm)
80°C (176°F) x 30 minutes 134.4 (37.7 N/25mm)
-20°C (-4°F) x 30 minutes 71.7 (19.6 N/25mm)
Static Shear Adhesion to Steel (7 days)
3.22cm (1.25") x 1500g @ 23°C (73°F) Pass
3.22cm (1.25") x 500g @ 93°C (200°F) Pass
Dynamic Shear Adhesion to Steel (oz/in. width)
(10mm x 10mm @ 200mm / minute removal speed)
@ Room Temp x 30 minutes 492 (134 N/25mm)
@ 80°C (176°F) x 30 minutes 528 (144 N/25mm)
@ -20°C (-4°F) x 30 minutes 439 (120 N/25mm)
@ 80°C (176°F) x 250 hours 546 (149 N/25mm)
@ -20°C (-4°F) x 250 hours 483 (132 N/25mm)
Temperature Resistance - Short Term +250°F (121°C)
20mm x 20mm x 500g (to Stainless Steel)
Total Thickness w/o Liner (mils) 20 (0.508mm)
Liner Type / Thickness (mils) PE - Red 4.8 (0.12 mm)

IMPORTANT: The information in this technical bulletin is based on data obtained by our testing and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results obtained from the use thereof, or that any such use will not infringe on any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability for his particular purpose.