

TECHNICAL DATA SHEET (PRELIMINARY)

Avery Dennison™ FT 21120 FR

Avery Dennison FT 21120FR is a single liner transfer tape featuring our Flame Tough™ Acrylic adhesive. recommended for flame retardant requirements.

Applications include the mounting of mica and ceramic paper layers in Electric Vehicle batteries and attachment of flame retardant insulation pipes and hoses.

FEATURES

- Crosslinked flame retardant acrylic adhesive
- Low liner release force

BENEFITS

- Enables composites to pass UL 94 and other flammability requirements
- Good moisture resistance
- High creep resistance
- Excellent peel adhesion on polar surfaces



CONSTRUCTION

Liner: Havana (yellow-brown) colored paper

Adhesive: Flame retardant acrylic



Performance
Tapes

| Adhesive Properties | Typical Values | | |
|---|------------------------|-------------|--------------------------|
| THICKNESS (ASTM D3652) | US Mil's | MM's | Micron's (µm) |
| Liner | 2.95 | 0.075 | 75 |
| Adhesive | 1.32 | 0.034 | 34 |
| Total Caliper | 4.84 | 0.123 | 123 |
| PEEL ADHESION (ASTM D3330) 90° (12") 300 mm / min @ Room Temp | N / 22 mm | | N / Meter |
| SUBSTRATE | | | |
| Stainless steel | 20 min dwell | 12 | 545 |
| | 24 hr dwell | 27 | 1225 |
| | 72 hr dwell | 27 | 1225 |
| Polycarbonate | 72 hr dwell | 23 | 1045 |
| Polypropylene | 72 hr dwell | 6 | 275 |
| LOOP TACK (ASTM D6195) (12") 300 mm / min @ Room Temp | N / (22 x 25)mm | | N / (1000 x 25)mm |
| SUBSTRATE | | | |
| Glass | 7 | | 320 |
| Creep resistance (ASTM D3654) 22 x 25 mm - 1 kg load - 24 hr dwell @ Room Temp | | | |
| | | min | |
| SUBSTRATE | | | |
| SS | > 20000 | | |
| Shear adhesion failure temperature (S.A.F.T.) (ASTM D4498) (12") 500 g - 24 h dwell | | | |
| | | °F | °C |
| SUBSTRATE | | | |
| SS | 270 | | 130 |
| TEMPERATURES | | | |
| | | °F | °C |
| Minimum Application Temperature | | +32 | 0 |
| Minimum Service Temperature (continuous) | | -40 | -40 |
| Maximum Service Temperature (continuous) | | +175 | +80 |

Note: The listed values are typical only and not intended to serve as product specifications

APPLICATION TECHNIQUES

- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed
- Note that different pressure, time and temperature on different (firm / rigid) surface achieves different performance

STORAGE / SHELF LIFE

Two years when stored at 64-72°F (18-22°C) / 30-70% relative humidity, out of direct sunlight and in original packaging.

For more information on our bonding tapes and adhesive solutions, call us:

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www.tapes.averydennison.com