

3M 4412N Extreme Sealing Tape

Category : Polymer , Tape

Material Notes:

3M™ Extreme Sealing Tape is a family of single coated, pressure sensitive adhesive tapes designed for difficult sealing applications. The backing on this tape is an ionomer film that is very tough yet flexible and abrasion resistant. The very soft and thick acrylic adhesive has excellent sealing properties and good outdoor durability. This single coated tape is designed to seal over an existing joint, seam, or penetration. The adhesive is designed to adhere well to the ionomer film so that overlapping tape joints can be made while maintaining a strong seal. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-4412N-Extreme-Sealing-Tape.php

Physical Properties	Metric	English	Comments
Density	0.820 g/cc	0.0296 lb/in ³	
Thickness	50.8 microns	2.00 mil	Liner
	102 microns	4.00 mil	Backing
	1930 microns	76.0 mil	Adhesive
	2030 microns	80.0 mil	Total

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	11.2 MPa	1620 psi	D-412 dog bone die C; ASTM D3759
Elongation at Break	200 %	200 %	D-412 dog bone die C; ASTM D3759
Peel Strength	3.16 kN/m	18.0 pli	Adhesion to Stainless; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.16 kN/m	18.0 pli	Adhesion to Aluminum; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.16 kN/m	18.0 pli	Adhesion to PC; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.16 kN/m	18.0 pli	Adhesion to PP; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.33 kN/m	19.0 pli	Adhesion to Truck Paint; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.33 kN/m	19.0 pli	Adhesion to Glass; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	

Mechanical Properties	Metric	English	Comments
	3.33 kN/m	19.0 pli	Adhesion to Acrylic; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.33 kN/m	19.0 pli	Adhesion to ABS; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	
	3.33 kN/m	19.0 pli	Adhesion to PVC; ASTM D3330
	@Time 259000 sec	@Time 72.0 hour	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	93.0 °C	199 °F	Long term
	149 °C	300 °F	Short term

Descriptive Properties	Value	Comments
Appearance	Neutral/Translucent	

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