

3M EPS-200 Tubing

Category : Polymer , Thermoset

Material Notes:

3M EPS-200 is a 2:1 thin-wall tubing offering the advantages of integral adhesive-lined construction. The tubing is made from a flame-retardant, flexible polyolefin with a thin layer of special thermoplastic adhesive. The heat-shrinkable outer wall is selectively cross-linked while maintaining the high flow and excellent adhesion of the inner sealant liner. When heated in excess of 121°C, EPS-200 rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. EPS-200 is rated for operation at -55°C to 110°C. Adhesive reflow will occur at temperatures above 80°C. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-EPS-200-Tubing.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.5 MPa	2100 psi	
Elongation at Break	450 %	450 %	
	175 %	175 %	
	@Temperature 175 °C, Time 1.21e+6 sec	@Temperature 347 °F, Time 336 hour	Heat Aged
Peel Strength	1.75 kN/m	10.0 pli	Adhesion to PVC
	2.63 kN/m	15.0 pli	Adhesion to Lead
	5.26 kN/m	30.0 pli	Adhesion to Polyethylene
	7.01 kN/m	40.0 pli	Adhesion to Aluminum

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 °C	275 °F	
	300 °C	572 °F	for short periods
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Strength	31.5 kV/mm	800 kV/in	

Electrical Properties

Metric

English

Comments

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