

3M EPS-300 Heat Shrink Tubing

Category : Polymer , Thermoset

Material Notes:

3M Heat Shrink tubing EPS-300 is a 3:1 thin-wall, flexible tubing offering the advantages of integral, adhesive-lined construction. The tubing is made from flame-retardant, flexible polyolefin with an internal 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-300 tubing 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. Adhesive reflow will occur at temperatures about 80°C. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-EPS-300-Heat-Shrink-Tubing.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
Water Absorption	0.30 %	0.30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.5 MPa	2100 psi	
Elongation at Break	450 %	450 %	
	175 %	175 %	Heat Aged
	@Temperature 175 °C, Time 1.21e+6 sec	@Temperature 347 °F, Time 336 hour	
2% Secant Modulus	0.117 GPa	17.0 ksi	
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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Strength	27.6 kV/mm	700 kV/in	

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