

Arlon 0.010" (0.254 mm) Layer-on-Layer Silicone Traction Motor Insulation (51229R020)

Category : Polymer , Thermoset , Silicone

Material Notes:

0.010 in. (0.25 mm) minimum uncured silicone on 0.002 in. (0.5 mm) minimum cured silicone on 0.008 in. (0.2 mm) nominal Prime Coated 7628 Fiberglass; 0.003 in. (0.08 mm) polyethylene interleave; overall thickness 0.015 in \pm 0.0015 (0.38 mm \pm 0.038). The shelf life is defined as the duration of time for which the product will meet the physical requirements outlined below. It does not guarantee the product's usefulness in all applications. Color: Red. Weight: 732.4 g/m² \pm 50.9 (21.6 oz./yd.² \pm 1.5). Shelf Life: 6 months from date of manufacture at 23.8°C (75°F). Cure Time: 0.25 hours. Post Cure: 204°C (400°F), for 2 hours. Flame Test Method: FTMS 191A, Method 5905. Maximum Flame and Glow Time: 15 seconds. Maximum Char Length: 7.62 cm (3 in). Information provided by the manufacturer, Arlon Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-0010-0254-mm-Layer-on-Layer-Silicone-Traction-Motor-Insulation-51229R020.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55 - 65	55 - 65	
Tensile Strength, Ultimate	\geq 6.90 MPa	\geq 1000 psi	
Elongation at Break	\geq 200 %	\geq 200 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.6 °C	-69.9 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	\geq 15.75 kV/mm	\geq 400.0 kV/in	

Processing Properties	Metric	English	Comments
Processing Temperature	176.6 °C	349.9 °F	

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