

Arlon 0.020" (0.508 mm) Silicone Traction Motor Insulation with Fiberglass Substrate (19220R020)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Silicone

Material Notes:

Uncured silicone rubber with a minimum thickness of 0.005 in. (0.13 mm) on Prime Coated 1523 Fiberglass; 0.0015 in. (0.8 mm) polyethylene interleave; overall thickness 0.020 in \pm 0.0015 (0.51 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: 759.5 g/m² \pm 50.9 (22.4 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. Maximum Flame and Glow Time: 15 seconds. Maximum Char Length: 7.6 cm (3 in). Bond strength is 8.2 kg/cm (9.5 lb/in.). Information provided by the manufacturer, Arlon Silicone Technologies Division.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-0020-0508-mm-Silicone-Traction-Motor-Insulation-with-Fiberglass-Substrate-19220R020.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	250 %	250 %	

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	curing temp., at 0.345 MPa (50 psi)

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