

Arlon R36386C035 0.035" (0.889 mm) Uncured/Cured Silicone Rubber with Fiberglass Substrate

Category : Polymer , Thermoset , Silicone , Silicone Rubber , Silicone, Molded, Glass Fiber Filled

Material Notes:

Design/Construction: Interleave: Polyethylene Side 1: Cured Silicone Rubber Side 2: Uncured Silicone Rubber (Ferromagnetic Filler)

Substrate: Style 7628 Fiberglass This data represents typical values for the production material. The data should not be used to write, or in place of, material specifications. Information provided by Arlon, Silicone Technologies Division

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arlon-R36386C035-0035-0889-mm-UncuredCured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	Side 1, Silicone Property; Arlon SQA-TMS-024
	3.80 g/cc	0.137 lb/in ³	Side 2, Silicone Property; Arlon SQA-TMS-024
Thickness	127 microns	5.00 mil	Side 1; Arlon SQA-TMS-003
	127 microns	5.00 mil	Interleave
	203 microns	8.00 mil	Substrate; Arlon SQA-TMS-003
	559 microns	22.0 mil	Side 2; Arlon SQA-TMS-003
	889 microns	35.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Side 1, Silicone Property; ASTM D2240
	70	70	Side 2, Silicone Property; ASTM D2240
Tensile Strength	2.07 MPa	300 psi	Side 2, Silicone Property; ASTM D412
	6.21 MPa	900 psi	Side 1, Silicone Property; ASTM D412
Elongation at Break	110 %	110 %	Side 2, Silicone Property; ASTM D412
	625 %	625 %	Side 1, Silicone Property; ASTM D412
Peel Strength	0.877 kN/m	5.00 pli	Bond Strength (S2 to S2); ASTM D624

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	
Minimum Service Temperature, Air	-56.7 °C	-70.0 °F	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Strength	9.84 kV/mm	250 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	Recommended Postcure Cycle
	@Temperature 204 °C	@Temperature 400 °F	
	15.0 min	0.250 hour	Recommended Cure Cycle
	@Pressure 0.345 MPa, Temperature 177 °C	@Pressure 50.0 psi, Temperature 350 °F	
Shelf Life	6.00 Month	6.00 Month	From date of manufacture
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	Red	
Total Product Weight (oz/yd2)	80.5	Arlon SQA-TMS-025

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