

Arlon 55580R025 0.026" (0.660 mm) Uncured Silicone Rubber with Fiberglass Substrate

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

Material Notes:

Design/Construction: Interleave: PolyethyleneRubber Layer: Uncured Silicone Rubber Substrate: 162 Style FiberglassAppearance: Red silicone gum on fiberglass clothThis 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-55580R025-0026-0660-mm-Uncured-Silicone-Rubber-with-Fiberglass-Substrate.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	76.2 microns	3.00 mil	Interleave
	203 microns	8.00 mil	Rubber Layer; Arlon SQA-TMS-003
	457 microns	18.0 mil	Substrate; Arlon SQA-TMS-003
	660 microns	26.0 mil	Overall; Arlon SQA-TMS-003

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	37	37	Silicone Property; ASTM D2240
Tensile Strength	6.55 MPa	950 psi	Silicone Property; ASTM D412
Elongation at Break	620 %	620 %	Silicone Property; ASTM D412
Tear Strength	26.3 kN/m	150 pli	Silicone Property; ASTM D624
Peel Strength	3.54 kN/m	20.2 pli	Bond Strength; 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	
Flammability, UL94	HB @Temperature 200 °C	HB @Temperature 392 °F	per card E54153

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.7 kV/mm	400 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)	29.2	Arlon SQA-TMS-025

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