

Arlon Thermabond® R36300W015 0.015" (0.381 mm) Uncured Silicone Rubber with PTFE Coated Fiberglass Carrier

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

Material Notes:

Design/Construction: Liner: FEP Product: Uncured Silicone Rubber Carrier: PTFE Coated Fiberglass Recommended Primers: Dow Corning S2260 Appearance: White silicone gum 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-Thermabond-R36300W015-0015-0381-mm-Uncured-Silicone-Rubber-with-PTFE-Coated-Fiberglass-Carrier.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	Silicone Property; Arlon SQA-TMS-024
Thickness	25.4 microns	1.00 mil	Liner
	76.2 microns	3.00 mil	Carrier
	381 microns	15.0 mil	Overall; Arlon SQA-TMS-003
Outgassing - Total Mass Loss	0.50 %	0.50 %	Arlon SQA-TMS-045

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	Silicone Property; ASTM D2240
Tensile Strength	2.07 MPa	300 psi	Silicone Property; ASTM D412
Elongation at Break	28 %	28 %	Silicone Property; ASTM D412
Modulus of Elasticity	0.0328 GPa	4.75 ksi	ASTM E 831
Poissons Ratio	0.50	0.50	Approximately, Silicone Property
Shear Modulus	0.000448 GPa	0.0650 ksi	ASTM D 1002
Shear Strength	1.28 MPa	185 psi	Lap Shear Strength; ASTM D1002

Thermal Properties	Metric	English	Comments
CTE, linear	39.0 μm/m-°C	21.7 μin/in-°F	Silicone Property; ASTM E 831
Specific Heat Capacity	0.700 J/g-°C	0.167 BTU/lb-°F	E 1461-01
Thermal Conductivity	1.50 W/m-K	10.4 BTU-in/hr-ft ² -°F	Silicone Property; ASTM E 1530
Maximum Service Temperature, Air	204 °C	400 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-110 - -95.0 °C	-166 - -139 °F	Silicone Property; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8	3.8	D _k , Silicone Property; IPC TM 650-2.5.5.3
Dielectric Strength	31.5 kV/mm	800 kV/in	ASTM D149
Dissipation Factor	0.0028	0.0028	D _f , Silicone Property; IPC TM 650-2.5.5.3

Processing Properties	Metric	English	Comments
Cure Time	15.0 min @Temperature 121 °C	0.250 hour @Temperature 250 °F	Recommended Cure Cycle
Shelf Life	6.00 Month @Temperature 4.44 - 10.0 °C	6.00 Month @Temperature 40.0 - 50.0 °F	From date of manufacture

Descriptive Properties	Value	Comments
Color	White	
Total Product Weight (g/m ²)	655	Arlon SQA-TMS-025

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