

Multibase SILASTIC® 7-6860 Dow-Corning Biomedical Grade Liquid Silicone Rubber

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE) , Silicone , Silicone Rubber

Material Notes:

Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-SILASTIC-7-6860-Dow-Corning-Biomedical-Grade-Liquid-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	Relative, no post cure- press cured for 5 minutes; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	no post cure- press cured for 5 minutes; ASTM D2240
	61	61	post cured-2 hours at 166°C; ASTM D2240
	62	62	post cured-4 hours at 166°C; ASTM D2240
	63	63	post cured- 8 hours at 166°C; ASTM D2240
Tensile Strength, Ultimate	9.253 MPa	1342 psi	post cured- 4 hours at 166°C; ASTM D412
	9.666 MPa	1402 psi	post cured- 8 hours at 166°C; ASTM D412
	9.687 MPa	1405 psi	post cured- 2 hours at 166°C; ASTM D412
	10.0 MPa	1450 psi	no post cure, press cured for 5 minutes; ASTM D412
Tensile Strength, Yield	4.48 MPa	650 psi	at 200%, no post cure- press cured for 5 minutes; ASTM D412
	5.36 MPa	778 psi	at 200%, post cured- 2 hours at 166°C; ASTM D412
	5.50 MPa	798 psi	200%, post cured- 4 hours at 166°C; ASTM D412
	5.85 MPa	848 psi	200%, post cured- 8 hours at 166°C; ASTM D412
Elongation at Break	411 %	411 %	post cured- 8 hours at 166°C; ASTM D412
	423 %	423 %	post cured- 4 hours at 166°C; ASTM D412

Mechanical Properties	463 % Metric	463 % English	post cured- 2 hours at 166°C; ASTM D412 Comments
	580 %	580 %	no post cure, press cured for 5 minutes; ASTM D412
Tear Strength	47.3 kN/m	270 pli	Die B, no post cure- press cured for 5 minutes; ASTM D624
	49.6 kN/m	283 pli	Die B, post cured- 4 hours at 166°C; ASTM D624
	50.5 kN/m	288 pli	Die B, post cured- 8 hours at 166°C; ASTM D624
	51.2 kN/m	292 pli	Die B, post cured- 2 hours at 166°C; ASTM D624
Compression Set	15.9 %	15.9 %	post cured- 8 hours at 166°C
	27.5 %	27.5 %	post cured- 4 hours at 166°C; ASTM D395
	28.1 %	28.1 %	post cured- 2 hours at 166°C; ASTM D395
	56.9 %	56.9 %	no post cure, press cured for 5 minutes; ASTM D395

Thermal Properties	Metric	English	Comments
Shrinkage	1.9 %	1.9 %	no post cure, press cured for 5 minutes
	2.60 %	2.60 %	post cured
	@Temperature 166 °C, Time 7200 sec	@Temperature 331 °F, Time 2.00 hour	
	2.70 %	2.70 %	post cured
	@Temperature 166 °C, Time 14400 sec	@Temperature 331 °F, Time 4.00 hour	
	2.80 %	2.80 %	post cured
	@Temperature 166 °C, Time 28800 sec	@Temperature 331 °F, Time 8.00 hour	

Processing Properties	Metric	English	Comments
Processing Temperature	165 °C	329 °F	Cure Temp

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