

Multibase SILASTIC® 7-4860 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-7-4860-Dow-Corning-Biomedical-Grade-Liquid-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	Relative, no post cure- press cured for 5 minutes; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	no post cure- press cured for 5 minutes; ASTM D2240
	58	58	post cured-2 hours at 177°C; ASTM D2240
	59	59	post cured-4 hours at 177°C; ASTM D2240
	59	59	post cured- 8 hours at 177°C; ASTM D2240
Tensile Strength, Ultimate	8.55 MPa	1240 psi	post cured- 8 hours at 177°C; ASTM D412
	8.784 MPa	1274 psi	post cured- 4 hours at 177°C; ASTM D412
	8.798 MPa	1276 psi	post cured- 2 hours at 177°C; ASTM D412
	8.83 MPa	1280 psi	no post cure, press cured for 5 minutes; ASTM D412
Tensile Strength, Yield	4.00 MPa	580 psi	at 200%, no post cure- press cured for 5 minutes; ASTM D412
	4.21 MPa	610 psi	200%, post cured- 4 hours at 177°C; ASTM D412
	4.27 MPa	619 psi	at 200%, post cured- 2 hours at 177°C; ASTM D412
	4.29 MPa	622 psi	200%, post cured- 8 hours at 177°C; ASTM D412
Elongation at Break	492 %	492 %	post cured- 8 hours at 177°C; ASTM D412
	503 %	503 %	post cured- 2 hours at 177°C; ASTM D412

Mechanical Properties	518 % Metric	518 % English	post cured- 4 hours at 177°C; ASTM D412 Comments
	540 %	540 %	no post cure, press cured for 5 minutes; ASTM D412
Tear Strength	47.5 kN/m	271 pli	Die B, post cured- 2 hours at 177°C; ASTM D624
	49.4 kN/m	282 pli	Die B, post cured- 4 hours at 177°C; ASTM D624
	50.7 kN/m	289 pli	Die B, post cured- 8 hours at 177°C; ASTM D624
	50.8 kN/m	290 pli	Die B, no post cure- press cured for 5 minutes; ASTM D624
Compression Set	33 %	33 %	no post cure, press cured for 5 minutes; ASTM D395

Thermal Properties	Metric	English	Comments
Shrinkage	2.7 %	2.7 %	no post cure, press cured for 5 minutes

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Cure Temp

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