

Multibase SILASTIC® 7-6840 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-7-6840-Dow-Corning-Biomedical-Grade-Liquid-Silicone-Rubber.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	Relative, no post cure- press cured for 5 minutes; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	42	42	no post cure- press cured for 5 minutes; ASTM D2240
	46	46	post cured-4 hours at 200°C; ASTM D2240
	47	47	post cured-2 hours at 200°C; ASTM D2240
	48	48	post cured- 8 hours at 200°C; ASTM D2240
Tensile Strength, Ultimate	8.922 MPa	1294 psi	post cured- 4 hours at 200°C; ASTM D412
	9.246 MPa	1341 psi	post cured- 2 hours at 200°C; ASTM D412
	9.287 MPa	1347 psi	post cured- 8 hours at 200°C; ASTM D412
	9.86 MPa	1430 psi	no post cure, press cured for 5 minutes; ASTM D412
Tensile Strength, Yield	2.34 MPa	340 psi	at 200%, no post cure- press cured for 5 minutes; ASTM D412
	3.23 MPa	468 psi	200%, post cured- 4 hours at 200°C; ASTM D412
	3.28 MPa	475 psi	at 200%, post cured- 2 hours at 200°C; ASTM D412
	3.55 MPa	515 psi	200%, post cured- 8 hours at 200°C; ASTM D412
Elongation at Break	553 %	553 %	post cured- 8 hours at 200°C; ASTM D412
	564 %	564 %	post cured- 4 hours at 200°C; ASTM D412

Mechanical Properties	578 % Metric	578 % English	post cured- 2 hours at 200°C; ASTM D412 Comments
	700 %	700 %	no post cure, press cured for 5 minutes; ASTM D412
Tear Strength	36.8 kN/m	210 pli	Die B, no post cure- press cured for 5 minutes; ASTM D624
	45.4 kN/m	259 pli	Die B, post cured- 4 hours at 200°C; ASTM D624
	47.0 kN/m	268 pli	Die B, post cured- 2 hours at 200°C; ASTM D624
	48.7 kN/m	278 pli	Die B, post cured- 8 hours at 200°C; ASTM D624
Compression Set	18.2 %	18.2 %	post cured- 4 hours at 200°C; ASTM D395
	19.9 %	19.9 %	post cured- 8 hours at 200°C
	44.2 %	44.2 %	no post cure, press cured for 5 minutes; ASTM D395
	67.6 %	67.6 %	post cured- 2 hours at 200°C; ASTM D395

Thermal Properties	Metric	English	Comments
Shrinkage	2.3 %	2.3 %	no post cure, press cured for 5 minutes
	3.00 %	3.00 %	post cured
	@Temperature 200 °C, Time 7200 sec	@Temperature 392 °F, Time 2.00 hour	
	3.00 %	3.00 %	post cured
	@Temperature 200 °C, Time 14400 sec	@Temperature 392 °F, Time 4.00 hour	
	3.10 %	3.10 %	post cured
	@Temperature 200 °C, Time 28800 sec	@Temperature 392 °F, Time 8.00 hour	

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

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