

Multibase SILASTIC® Q7-4750 Dow-Corning Biomedical Grade ETR Elastomer

Category : Polymer , Thermoset , Silicone

Material Notes:

Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-SILASTIC-Q7-4750-Dow-Corning-Biomedical-Grade-ETR-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	as molded- 10 minutes at 116°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	as molded- 10 minutes at 116°C
	57	57	post cured- 2 hours at 177°C
	59	59	post cured- 4 hours at 177°C
	59	59	post cured- 8 hours at 177°C
Tensile Strength, Ultimate	9.942 MPa	1442 psi	post cured- 8 hours at 177°C
	9.956 MPa	1444 psi	post cured- 2 hours at 177°C
	10.16 MPa	1473 psi	as molded- 10 minutes at 116°C
	10.36 MPa	1503 psi	post cured- 4 hours at 177°C
Tensile Strength, Yield	2.14 MPa	311 psi	at 200%, as molded- 10 minutes at 116°C
	3.03 MPa	440 psi	at 200%, post cured- 2 hours at 177°C
	3.19 MPa	463 psi	200%, post cured- 4 hours at 177°C
	3.33 MPa	483 psi	200%, post cured- 8 hours at 177°C
Elongation at Break	577 %	577 %	post cured- 8 hours at 177°C
	623 %	623 %	post cured- 4 hours at 177°C
	647 %	647 %	post cured- 2 hours at 177°C
	903 %	903 %	as molded- 10 minutes at 116°C
Tear Strength	39.6 kN/m	226 pli	post cured- 8 hours at 177°C; Die B
	44.4 kN/m	253 pli	post cured- 4 hours at 177°C; Die B
	45.9 kN/m	262 pli	as molded- 10 minutes at 116°C; Die B

Mechanical Properties	Metric	English	Comments
	46.3 kN/m	265 pli	post cured- 2 hours at 177°C; Die B
Compression Set	44 %	44 %	22 hours at 177°C, post cured- 8 hours at 177°C
	45.8 %	45.8 %	22 hours at 177°C, post cured- 2 hours at 177°C
	56.4 %	56.4 %	22 hours at 177°C, as molded- 10 minutes at 116°C
	69.4 %	69.4 %	22 hours at 177°C, post cured- 4 hours at 177°C

Thermal Properties	Metric	English	Comments
Shrinkage	1.70 %	1.70 %	as molded
	@Temperature 116 °C, Time 601 sec	@Temperature 241 °F, Time 0.167 hour	
	2.30 %	2.30 %	post cured
	@Temperature 177 °C, Time 14400 sec	@Temperature 351 °F, Time 4.00 hour	
	2.40 %	2.40 %	post cured
	@Temperature 177 °C, Time 7200 sec	@Temperature 351 °F, Time 2.00 hour	
	2.40 %	2.40 %	post cured
	@Temperature 177 °C, Time 28800 sec	@Temperature 351 °F, Time 8.00 hour	

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