

Multibase SILASTIC® Q7-4780 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-Q7-4780-Dow-Corning-Biomedical-Grade-ETR-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	as molded- 10 minutes at 116°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	76	76	as molded- 10 minutes at 116°C
	83	83	post cured- 2 hours at 177°C
	83	83	post cured- 4 hours at 177°C
	84	84	post cured- 8 hours at 177°C
Tensile Strength, Ultimate	6.04 MPa	876 psi	post cured- 8 hours at 177°C
	6.69 MPa	970 psi	post cured- 4 hours at 177°C
	6.96 MPa	1010 psi	post cured- 2 hours at 177°C
	7.660 MPa	1111 psi	as molded- 10 minutes at 116°C
Tensile Strength, Yield	3.78 MPa	548 psi	at 200%, as molded- 10 minutes at 116°C
	4.12 MPa	597 psi	at 200%, post cured- 2 hours at 177°C
	4.18 MPa	606 psi	200%, post cured- 4 hours at 177°C
	4.21 MPa	611 psi	200%, post cured- 8 hours at 177°C
Elongation at Break	384 %	384 %	post cured- 8 hours at 177°C
	444 %	444 %	post cured- 4 hours at 177°C
	483 %	483 %	post cured- 2 hours at 177°C
	654 %	654 %	as molded- 10 minutes at 116°C
Tear Strength	21.4 kN/m	122 pli	post cured- 8 hours at 177°C; Die B
	22.6 kN/m	129 pli	post cured- 4 hours at 177°C; Die B
	26.3 kN/m	150 pli	post cured- 2 hours at 177°C; Die B

Mechanical Properties	Metric	English	Comments
			10 minutes at 116°C, Die
Compression Set	62.5 %	62.5 %	22 hours at 177°C, post cured- 4 hours at 177°C
	70.9 %	70.9 %	22 hours at 177°C, as molded- 10 minutes at 116°C
	73.4 %	73.4 %	22 hours at 177°C, post cured- 8 hours at 177°C
	81.2 %	81.2 %	22 hours at 177°C, post cured- 2 hours at 177°C

Thermal Properties	Metric	English	Comments
Shrinkage	1.90 %	1.90 %	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 7200 sec	@Temperature 351 °F, Time 2.00 hour	
	2.40 %	2.40 %	post cured
	@Temperature 177 °C, Time 14400 sec	@Temperature 351 °F, Time 4.00 hour	
	2.70 %	2.70 %	post cured
	@Temperature 177 °C, Time 28800 sec	@Temperature 351 °F, Time 8.00 hour	

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