

Multibase SILASTIC® Q7-4765 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-Q7-4765-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	64	64	as molded- 10 minutes at 116°C
	75	75	post cured- 2 hours at 177°C
	77	77	post cured- 4 hours at 177°C
	77	77	post cured- 8 hours at 177°C
Tensile Strength, Ultimate	7.481 MPa	1085 psi	post cured- 2 hours at 177°C
	7.846 MPa	1138 psi	post cured- 4 hours at 177°C
	7.86 MPa	1140 psi	post cured- 8 hours at 177°C
	7.936 MPa	1151 psi	as molded- 10 minutes at 116°C
Tensile Strength, Yield	2.82 MPa	409 psi	at 200%, as molded- 10 minutes at 116°C
	3.70 MPa	536 psi	at 200%, post cured- 2 hours at 177°C
	3.93 MPa	570 psi	200%, post cured- 4 hours at 177°C
	4.04 MPa	586 psi	200%, post cured- 8 hours at 177°C
Elongation at Break	591 %	591 %	post cured- 8 hours at 177°C
	619 %	619 %	post cured- 4 hours at 177°C
	649 %	649 %	post cured- 2 hours at 177°C
	890 %	890 %	as molded- 10 minutes at 116°C
Tear Strength	39.4 kN/m	225 pli	post cured- 2 hours at 177°C; Die B
	40.7 kN/m	232 pli	post cured- 4 hours at 177°C; Die B
	45.1 kN/m	257 pli	post cured- 8 hours at 177°C; Die B

Mechanical Properties	Metric	English	Comments
			10 minutes at 116°C, Die
Compression Set	58.7 %	58.7 %	22 hours at 177°C, post cured- 4 hours at 177°C
	70.3 %	70.3 %	22 hours at 177°C, as molded- 10 minutes at 116°C
	76 %	76 %	22 hours at 177°C, post cured- 8 hours at 177°C
	76.2 %	76.2 %	22 hours at 177°C, post cured- 2 hours at 177°C

Thermal Properties	Metric	English	Comments
Shrinkage	1.80 %	1.80 %	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	
	2.30 %	2.30 %	post cured
	@Temperature 177 °C, Time 28800 sec	@Temperature 351 °F, Time 8.00 hour	
	2.40 %	2.40 %	post cured
	@Temperature 177 °C, Time 14400 sec	@Temperature 351 °F, Time 4.00 hour	

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