

Multibase SILASTIC® Q7-4735 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-Q7-4735-Dow-Corning-Biomedical-Grade-ETR-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	as molded- 10 minutes at 116°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35	35	as molded- 10 minutes at 116°C
	44	44	post cured- 2 hours at 177°C
	45	45	post cured- 4 hours at 177°C
	46	46	post cured- 8 hours at 177°C
Tensile Strength, Ultimate	8.267 MPa	1199 psi	post cured- 8 hours at 177°C
	8.315 MPa	1206 psi	post cured- 4 hours at 177°C
	8.34 MPa	1210 psi	post cured- 2 hours at 177°C
	9.839 MPa	1427 psi	as molded- 10 minutes at 116°C
Tensile Strength, Yield	1.11 MPa	161 psi	at 200%, as molded- 10 minutes at 116°C
	1.95 MPa	283 psi	200%, post cured- 8 hours at 177°C
	1.99 MPa	289 psi	at 200%, post cured- 2 hours at 177°C
	1.99 MPa	289 psi	200%, post cured- 4 hours at 177°C
Elongation at Break	833 %	833 %	post cured- 2 hours at 177°C
	838 %	838 %	post cured- 4 hours at 177°C
	843 %	843 %	post cured- 8 hours at 177°C
	1171 %	1171 %	as molded- 10 minutes at 116°C
Tear Strength	32.6 kN/m	186 pli	post cured- 8 hours at 177°C; Die B
	34.4 kN/m	196 pli	post cured- 4 hours at 177°C; Die B
	34.5 kN/m	197 pli	post cured- 2 hours at 177°C; Die B

Mechanical Properties	Metric	English	Comments
			10 minutes at 116°C, Die
Compression Set	26.4 %	26.4 %	22 hours at 177°C, post cured- 4 hours at 177°C
	34.9 %	34.9 %	22 hours at 177°C, post cured- 2 hours at 177°C
	39.7 %	39.7 %	22 hours at 177°C, post cured- 8 hours at 177°C
	43.4 %	43.4 %	22 hours at 177°C, as molded-10 minutes at 116°C

Thermal Properties	Metric	English	Comments
Shrinkage	1.60 %	1.60 %	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	
	2.50 %	2.50 %	post cured
	@Temperature 177 °C, Time 28800 sec	@Temperature 351 °F, Time 8.00 hour	
	2.60 %	2.60 %	post cured
	@Temperature 177 °C, Time 14400 sec	@Temperature 351 °F, Time 4.00 hour	

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