

Multibase C6-180 Dow-Corning Class VI Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-C6-180-Dow-Corning-Class-VI-Elastomer.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77	77	no post cure; ASTM D2240
	82	82	post cured- 2 hours at 177°C; ASTM D2240
	83	83	post cured- 4 hours at 177°C; ASTM D2240
	85	85	post cured- 8 hours at 177°C; ASTM D2240
Tensile Strength, Ultimate	6.61 MPa	958 psi	post cured- 8 hours at 177°C; ASTM D412
	7.226 MPa	1048 psi	post cured- 4 hours at 177°C; ASTM D412
	7.233 MPa	1049 psi	no post cure; ASTM D412
	7.350 MPa	1066 psi	post cured- 2 hours at 177°C; ASTM D412
Tensile Strength, Yield	3.68 MPa	534 psi	at 200%, no post cure; ASTM D412
	4.05 MPa	587 psi	200%, post cured- 4 hours at 177°C; ASTM D412
	4.07 MPa	590 psi	at 200%, post cured- 2 hours at 177°C; ASTM D412
	4.40 MPa	638 psi	200%, post cured- 8 hours at 177°C; ASTM D412
Elongation at Break	387 %	387 %	post cured- 8 hours at 177°C; ASTM D412
	481 %	481 %	post cured- 4 hours at 177°C; ASTM D412
	500 %	500 %	post cured- 2 hours at 177°C; ASTM D412
	614 %	614 %	no post cure; ASTM D412
Tear Strength	21.2 kN/m	121 pli	Die B, post cured- 8 hours at 177°C; ASTM D624
	22.3 kN/m	127 pli	Die B, post cured- 2 hours at 177°C; ASTM D624

Mechanical Properties	Metric	English	Comments
	22.4 kN/m	128 pli	Die B, post cured- 4 hours at 177°C; ASTM D624
	39.1 kN/m	223 pli	Die B, no post cure; ASTM D624

Thermal Properties	Metric	English	Comments
Shrinkage	1.8 %	1.8 %	no post cure
	2.60 %	2.60 %	post cured
	@Temperature 177 °C, Time 7200 sec	@Temperature 351 °F, Time 2.00 hour	
	2.60 %	2.60 %	post cured
	@Temperature 177 °C, Time 14400 sec	@Temperature 351 °F, Time 4.00 hour	
	2.80 %	2.80 %	post cured
	@Temperature 177 °C, Time 28800 sec	@Temperature 351 °F, Time 8.00 hour	

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