

Multibase C6-235 PERKADOX PD-50S 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-C6-235-PERKADOX-PD-50S-Dow-Corning-Class-VI-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	Relative, molded-without post cure; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	31	31	molded- without post cure; ASTM D2240
	37	37	post cured- 2 hours at 177 ^o C; ASTM D2240
	37	37	post cured- 4 hours at 177 ^o C; ASTM D2240
	38	38	post cured- 8 hours at 177 ^o C; ASTM D2240
Tensile Strength, Ultimate	6.89 MPa	1000 psi	molded-without post cure; ASTM D412
	7.58 MPa	1100 psi	post cured- 2 hours at 177 ^o C; ASTM D412
	7.58 MPa	1100 psi	post cured- 8 hours at 177 ^o C; ASTM D412
	8.96 MPa	1300 psi	post cured- 4 hours at 177 ^o C; ASTM D412
Tensile Strength, Yield	0.965 MPa	140 psi	at 200%, molded-without post cure; ASTM D412
	1.24 MPa	180 psi	at 200%, post cured- 2 hours at 177 ^o C; ASTM D412
	1.31 MPa	190 psi	200%, post cured- 4 hours at 177 ^o C; ASTM D412
	1.31 MPa	190 psi	200%, post cured- 8 hours at 177 ^o C; ASTM D412
Elongation at Break	760 %	760 %	post cured- 8 hours at 177 ^o C; ASTM D412
	810 %	810 %	molded-without post cure; ASTM D412
	810 %	810 %	post cured- 2 hours at 177 ^o C; ASTM D412

Mechanical Properties	Metric	English	Comments
	310 %	510 %	post cured- 4 hours at 177Å°C; ASTM D412
Tear Strength	19.3 kN/m	110 pli	Die B,molded-without post cure; ASTM D624
	21.0 kN/m	120 pli	Die B,post cured- 2 hours at 177Å°C; ASTM D624
	21.0 kN/m	120 pli	Die B, post cured- 4 hours at 177Å°C; ASTM D624
	24.5 kN/m	140 pli	Die B, post cured- 8 hours at 177Å°C; ASTM D624
Compression Set	66 %	66 %	22 hours at 177Å°C, post cured- 8 hours at 177Å°C; ASTM D395
	78 %	78 %	22 hours at 177Å°C, post cured- 4 hours at 177Å°C; ASTM D395
	82 %	82 %	22 hours at 177Å°C, post cured- 2 hours at 177Å°C; ASTM D395
	90 %	90 %	22 hours at 177Å°C, molded-without post cure; ASTM D395

Thermal Properties	Metric	English	Comments
Shrinkage	2.10 %	2.10 %	post cured
	@Temperature 177 Å°C, Time 14400 sec	@Temperature 351 Å°F, Time 4.00 hour	
	2.20 %	2.20 %	post cured
	@Temperature 177 Å°C, Time 7200 sec	@Temperature 351 Å°F, Time 2.00 hour	
	2.50 %	2.50 %	post cured
	@Temperature 177 Å°C, Time 28800 sec	@Temperature 351 Å°F, Time 8.00 hour	

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