

## Multibase C6-250 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-C6-250-PERKADOX-PD-50S-Dow-Corning-Class-VI-Elastomer.php](http://www.lookpolymers.com/polymer_Multibase-C6-250-PERKADOX-PD-50S-Dow-Corning-Class-VI-Elastomer.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	Relative, molded-without post cure; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	44	44	molded- without post cure; ASTM D2240
	46	46	post cured- 4 hours at 177 <sup>o</sup> C; ASTM D2240
	49	49	post cured- 2 hours at 177 <sup>o</sup> C; ASTM D2240
	50	50	post cured- 8 hours at 177 <sup>o</sup> C; ASTM D2240
Tensile Strength, Ultimate	8.27 MPa	1200 psi	molded-without post cure; ASTM D412
	8.27 MPa	1200 psi	post cured- 2 hours at 177 <sup>o</sup> C; ASTM D412
	8.96 MPa	1300 psi	post cured- 8 hours at 177 <sup>o</sup> C; ASTM D412
	9.65 MPa	1400 psi	post cured- 4 hours at 177 <sup>o</sup> C; ASTM D412
Tensile Strength, Yield	2.28 MPa	330 psi	at 200%, molded-without post cure; ASTM D412
	2.55 MPa	370 psi	at 200%, post cured- 2 hours at 177 <sup>o</sup> C; ASTM D412
	2.69 MPa	390 psi	200%, post cured- 4 hours at 177 <sup>o</sup> C; ASTM D412
	2.69 MPa	390 psi	200%, post cured- 8 hours at 177 <sup>o</sup> C; ASTM D412
Elongation at Break	530 %	530 %	post cured- 8 hours at 177 <sup>o</sup> C; ASTM D412
	530 %	530 %	post cured- 2 hours at 177 <sup>o</sup> C; ASTM D412
	550 %	550 %	post cured- 4 hours at 177 <sup>o</sup> C; ASTM D412

Mechanical Properties	Metric	English	Comments
	560 %	560 %	Molded without post cure; ASTM D412
Tear Strength	24.5 kN/m	140 pli	Die B, post cured- 8 hours at 177Â°C; ASTM D624
	26.3 kN/m	150 pli	Die B, molded-without post cure; ASTM D624
	26.3 kN/m	150 pli	Die B, post cured- 2 hours at 177Â°C; ASTM D624
	26.3 kN/m	150 pli	Die B, post cured- 4 hours at 177Â°C; ASTM D624
Compression Set	61 %	61 %	22 hours at 177Â°C, post cured- 4 hours at 177Â°C; ASTM D395
	63 %	63 %	22 hours at 177Â°C, post cured- 2 hours at 177Â°C; ASTM D395
	73 %	73 %	22 hours at 177Â°C, post cured- 8 hours at 177Â°C; ASTM D395
	96 %	96 %	22 hours at 177Â°C, molded-without post cure; ASTM D395

Thermal Properties	Metric	English	Comments
Shrinkage	2.00 %	2.00 %	post cured
	@Temperature 177 Â°C, Time 7200 sec	@Temperature 351 Â°F, Time 2.00 hour	
	2.20 %	2.20 %	
	@Temperature 177 Â°C, Time 14400 sec	@Temperature 351 Â°F, Time 4.00 hour	post cured
	2.30 %	2.30 %	post cured
	@Temperature 177 Â°C, Time 28800 sec	@Temperature 351 Â°F, Time 8.00 hour	

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