

DuPont Vamac® DP Sartomer 350 Coagent Test Compound

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Vamac® DP is an ethylene acrylic dipolymer elastomer. Its general performance characteristics are similar to those of the Vamac® terpolymers, including: Good oil and chemical resistance High temperature resistance Good compression set resistance Good low temperature flexibility Unlike Vamac® terpolymers, Vamac® DP dipolymer can be processed without a post cure. Form: Bale size is nominally: 560 mm x 370 mm by 165 mm Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Vamac-DP-Sartomer-350-Coagent-Test-Compound.php

Physical Properties	Metric	English	Comments
Mooney Viscosity	43.2	43.2	ML(1+4), mu
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	58	58	Cecilia 20 aged 168 hrs at 175°C
	71	71	Press-cured 5 minutes at 190°C
	82	82	Heat aged 2 weeks at 175°C
Tensile Strength, Ultimate	10.9 MPa	1580 psi	Cecilia 20 aged 168 hrs at 175°C
	11.7 MPa	1700 psi	Heat aged 2 weeks at 175°C
	13.5 MPa	1960 psi	Press-cured 5 minutes at 190°C
Elongation at Break	273 %	273 %	Heat aged 2 weeks at 175°C
	299 %	299 %	Press-cured 5 minutes at 190°C
	318 %	318 %	Cecilia 20 aged 168 hrs at 175°C
100% Modulus	0.00330 GPa	0.479 ksi	Cecilia 20 aged 168 hrs at 175°C
	0.00480 GPa	0.696 ksi	Press-cured 5 minutes at 190°C
	0.00620 GPa	0.899 ksi	Heat aged 2 weeks at 175°C
Tear Strength	29.0 kN/m	165 pli	Press-cured 5 minutes at 190°C; ISO 34
Compression Set	35 %	35 %	70 hrs at 150°C
	90 %	90 %	22 hrs at 150°C; VW PV 3307

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-32.0 °C	-25.6 °F	By DSC

Descriptive Properties	Value	Comments
Armeen® 18D	0.5 phr	
Bisoflex T810T	5 phr	
Change in Volume	15 %	Cecilia 20 aged 168 hrs at 175°C
Change in Weight	10 %	Cecilia 20 aged 168 hrs at 175°C
Mooney Scorch at 121°C, t5	9.2 metric minutes	Time for 5 unit rise
Naugard® 445 antioxidant	1 phr	
Perkadox 14/42	5 phr	
Sartomer 350(TRIM)	2 phr	
Stearic Acid	1.5 phr	
Sterling SO-N550 black	65 phr	
Vamac® DP	100 phr	

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