DuPont Vamac® DP HVA-2 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 resistanceHigh temperature resistanceGood compression set resistanceGood low temperature flexibilityUnlike Vamac® terpolymers, Vamac® DP dipolymer can be processed without a post cure.Form: Bale size is nominally:560 mm x 370 mm by 165 mmInformation provided by DuPont.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Vamac-DP-HVA-2-Coagent-Test-Compound.php

Physical Properties	Metric	English	Comments
Mooney Viscosity	45.7 @Temperature 100 °C	45.7 @Temperature 212 °F	ML(1+4), mu

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	65	65	Cecilia 20 aged 168 hrs at 175°C
	73	73	Press-cured 5 minutes at 190°C
	82	82	Heat aged 2 weeks at 175°C
Tensile Strength, Ultimate	12.2 MPa	1770 psi	Cecilia 20 aged 168 hrs at 175°C
	13.0 MPa	1890 psi	Heat aged 2 weeks at 175°C
	14.5 MPa	2100 psi	Press-cured 5 minutes at 190°C
Elongation at Break	182 %	182 %	Heat aged 2 weeks at 175°C
	194 %	194 %	Cecilia 20 aged 168 hrs at 175°C
	208 %	208 %	Press-cured 5 minutes at 190°C
100% Modulus	0.00620 GPa	0.899 ksi	Cecilia 20 aged 168 hrs at 175°C
	0.00680 GPa	0.986 ksi	Press-cured 5 minutes at 190°C
	0.00880 GPa	1.28 ksi	Heat aged 2 weeks at 175°C
Tear Strength	6.30 kN/m	35.9 pli	Trouser, Press-cured 5 minutes at 190°C; DIN 53507
	23.0 kN/m	131 pli	Press-cured 5 minutes at 190°C; ISO 34
Compression Set	25 %	25 %	70 hrs at 150°C
	77 %	77 %	22 hrs at 150°C; VW PV 3307

Mechanical Properties	Metric	English	Comments
Thermal Properties	**Metric**	**English**	**Comments**
Glass Transition Temp, Tg	-31.7 °C	-25.1 °F	By DSC

Descriptive Properties	Value	Comments
Armeen® 18D	0.5 phr	
Bisoflex T810T	5 phr	
Change in Volume	13 %	Cecilia 20 aged 168 hrs at 175°C
Change in Weight	9 %	Cecilia 20 aged 168 hrs at 175°C
HVA® #2 coagent	2 phr	
Mooney Scorch at 121°C, t5	10.9 metric minutes	Time for 5 unit rise
Naugard® 445 antioxidant	1 phr	
Perkadox 14/40	5 phr	
Stearic Acid	1.5 phr	
Sterling SO-N550 black	65 phr	
Vamac® DP	100 phr	

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