

## DuPont Vamac® DHC Ethylene Acrylic Elastomer (discontinued \*\*)

Category : Polymer , Thermoplastic , Ethylene Methyl Acrylate

### Material Notes:

DuPont™ Vamac® DHC is a dipolymer of ethylene and methylacrylate cured using peroxide vulcanization systems. This gum elastomer includes a small amount of processing aid. It has a mild acrylic odor. Use adequate ventilation during storage, mixing and processing to prevent accumulation of residual vapors. Storage stability is excellent. Applications: Vamac® dipolymers are cured with peroxides and do not require a post cure cycle. Vamac® DHC was developed to improve the cure characteristics of the standard Vamac® dipolymer. Vamac® DHC provides for a higher state of cure and improved compression set. However, the heat age performance is impacted and slightly lower than the standard Vamac® dipolymer. Vamac® DHC is considered to be a 1500C continuous operating temperature elastomer. Vamac® DHC has better oil resistance with service lubricants exhibiting lower oil swell. Low-temperature flexibility is maintained. Vamac® DHC would be of interest to those customers not needing the higher heat age performance of the standard Vamac® grades (1650C continuous) while wanting to maximize the properties from a non-post cure process with minimal cure time. The properties of Vamac® DHC make it potentially suitable for a wide range of automotive applications, including powertrain seals and gaskets, rocker cover and bonded piston seals, oil coolant hoses, power steering hoses, crankcase ventilating tubes, coverings for fuel and coolant hoses, O-rings, grommets and spark plug boots. Vamac® DHC is well suited for injection, transfer and compression molding, and is easily extruded. Information provided by DuPont™

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Vamac-DHC-Ethylene-Acrylic-Elastomer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_DuPont-Vamac-DHC-Ethylene-Acrylic-Elastomer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	nominal
Volatiles	<= 0.70 %	<= 0.70 %	ASTM D1416
Mooney Viscosity	16.5 - 24.5 @Temperature 100 °C	16.5 - 24.5 @Temperature 212 °F	ML 1+4; ASTM D1646
Ash	<= 0.20 %	<= 0.20 %	ASTM D1416

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	62	62	Aged for 1008 Hrs at 150°C in ASTM SF105 Oil
	71	71	Original
	82	82	Aged for 1008 Hrs at 150°C in Air
Tensile Strength at Break	15.49 MPa	2247 psi	Aged 1008 Hrs at 150°C in ASTM SF105 Oil
	18.15 MPa	2632 psi	Aged 1008 Hrs at 150°C in Air
	21.04 MPa	3051 psi	Original

Elongation at Break Mechanical Properties	139 % Metric	139 % English	Aged for 1008 Hrs at 150°C in ASTM SF 105 Oil Comments
	155 %	155 %	Aged for 1008 Hrs at 150°C in Air
	181 %	181 %	Original
100% Modulus	0.0110 GPa	1.60 ksi	Original
	0.0120 GPa	1.74 ksi	Aged 1008 Hrs at 150°C in Air
	0.0130 GPa	1.89 ksi	Aged 1008 Hrs at 150°C in ASTM SF105 Oil
Compression Set	33.2 %	33.2 %	168 Hrs at 150°C in air
	50.2 %	50.2 %	1008 Hrs at 150°C in air

Descriptive Properties	Value	Comments
Antioxidant-Naugard 445, parts	1	
Co-agent: HVA-2, parts	2	
Curative: Vulcup 40KE (peroxide), parts	5	
FEF black (N550)	55	
Release agent- Armeen 18D, parts	0.5	
Release agent-Stearic Acid, parts	0.5	
Release agent-Vanfre VAM (alkylphosphate), parts	0.5	
Vamac Dipolymer, parts	100	

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