Vamac® HVG

Ethylene Acrylic Elastomer

DuPont Performance Elastomers

Message:

DuPont™ Vamac® HVG is an unfilled gum ethylene/acrylic elastomer similar to Vamac® G, but offering higher compound viscosity. The higher viscosity of compounds made with Vamac® HVG results in improved green strength and related processing advantages, such as:
Improved collapse resistance of extrudates;
Enhanced preform dimensional stability; and
Improved moldability through elimination of trapped air.
Compounds of Vamac® HVG are often selected for applications such as compression molded goods, highly plasticized compounds, and extruded tubing and hose.
Vamac® HVG contains a small amount of processing aid and has a nominal specific gravity of 1.04. It has a mild acrylic odor.

General Information	
Additive	Processing Aid
Features	Good Dimensional Stability Good Moldability Good Strength High Viscosity
Appearance	Clear/Transparent
Forms	Bale
Processing Method	Compression Molding Extrusion

Physical	Nominal Value	Unit	Test Method
Mooney Viscosity			ASTM D1646
121°C	23 to 26	MU	
	26		
ML 1+4, 100°C	55 to 57	MU	

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	63 to 64		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	6.00	MPa	ASTM D412
Tensile Strength (Yield)	16.0 to 16.4	MPa	ASTM D412
Tensile Elongation (Break)	260 to 280	%	ASTM D412
Compression Set (150°C, 70 hr)	16	%	ASTM D395

Additional Information	Nominal Value	Unit	Test Method
MDR [1]			ASTM D5289

	2.56 to 2.58 J		
MH : 177°C	25.8 to 25.9 dNm		
	1.10 to 1.30 dNm		
ML : 177°C	0.113 to 0.124 J		
T50 : 177°C	2.2 to 2.3	min	
T90 : 177°C	7.0 to 9.7	min	
Ts2 : 177°C	0.8	min	
Mooney Scorch			ASTM D1646
t10 : 121°C	8.3 to 10.5	min	
t18 : 121°C	15.6 to 17.6	min	
Volatiles	< 0.4	wt%	Internal Method
NOTE			
1.	1° arc		

Recommended distributors for this material

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