

Viton® A-500

Fluoroelastomer
DuPont Performance Elastomers

Message:

Viton A-500 fluoroelastomer is a new generation "A-family" gum polymer that provides improved processing when compared with existing fluoroelastomers.

Viton A-500 is designed for use with the clean molding bisphenol curative, Viton Curative No. 50.

Compared to "A-family" dipolymers, Viton A-500 provides:

- Improved compression molding
- Better mold release
- Less mold fouling
- Faster cure rate
- Improved compression set resistance

Applications

- Compression and transfer molding
- O-rings
- gaskets
- seals
- Profile extrusion
- Calendered goods

General Information			
Features	Low compressive deformability		
	Solvent resistance		
	Compliance of Food Exposure		
	Good demoulding performance		
	Medium viscosity		
Uses	Washer		
	Pipe		
	Pipe fittings		
	Seals		
Agency Ratings	FDA 21 CFR 177.2600 2		
Appearance	Grey		
Forms	Particle		
Processing Method	Extrusion		
	Coating		
	Compression molding		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.82	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	7.20	MPa	ASTM D412
Tensile Strength (Break)	15.6	MPa	ASTM D412
Tensile Elongation (Break)	200	%	ASTM D412
Compression Set			
200°C, 22 hr	9.0	%	ASTM D395B
200°C, 70 hr	14	%	ASTM D395
200°C, 336 hr	26	%	ASTM D395B
232°C, 70 hr	31	%	ASTM D395B
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
275°C, 70 hr	-20	%	ASTM D573
100% strain, 275°C, 70 hr	-22	%	ASTM D573
Change in Ultimate Elongation in Air (275°C, 70 hr)			ASTM D573
Change in Durometer Hardness in Air (support a, 275°C, 70 hr)	0.0		ASTM D573
Additional Information			

Mooney Scorch, MS at 121°C, Minimum: 47Mooney Scorch, MS at 121°C, 1 unit rise: 30 minODR at 177°C, Microdie, 3° Arc, 12 min:ML: 17 in-lbts2: 1.5 mint90: 2.9 minMH: 123 in-lbNominal Viscosity, ML 1 + 10, 121°C: 50Polymer Fluorine Content: 66%

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