

Viton® A-361C

Fluoroelastomer

DuPont Performance Elastomers

Message:

Viton A-361C is an incorporated cure A-family dipolymer designed for the injection and transfer molding of parts requiring better metal adhesion along with the fluid and heat resistance characteristics typical of fluoroelastomers. The moderate viscosity level of Viton A-361C also allows for satisfactory compression molding of parts. Features of Viton A-361C are:

- Intermediate viscosity level (when compared with Viton A-201C/Viton A-401C)
- Fully precompounded
- reduced curative level
- incorporated metal adhesion promoter
- Improved processing
- increased mold flow
- easier mold release with less mold fouling
- improved demolding "hot tear"
- Good metal bonding with standard industrial primers

Applications:

Compression, transfer, and injection molding of:

- O-rings and gaskets
- Valve stem and crankshaft seals (and other bonded parts requiring fluid and heat resistance of the A-family of Viton)

General Information	
Additive	Carbon black (30%)
Features	Good liquidity
Uses	Pipe
	Pipe fittings
	Seals
	Coating application
Appearance	White
Forms	Sheet
Processing Method	Extrusion
	Resin transfer molding
	Compression molding
	Calendering
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm ³	ASTM D792
Mooney Viscosity (ML 1+10, 121°C)	63	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	78		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	3.80	MPa	ASTM D412
Tensile Strength (Break)	9.50	MPa	ASTM D412

Tensile Elongation (Break)	300	%	ASTM D412
Compression Set			
23°C, 70 hr	7.0	%	ASTM D395B
200°C, 70 hr	17	%	ASTM D395
232°C, 70 hr	37	%	ASTM D395B
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			ASTM D573
200°C, 70 hr	24	%	ASTM D573
100% strain, 200°C, 70 hr	24	%	ASTM D573
200°C, 168 hr	26	%	ASTM D573
100% strain, 200°C, 168 hr	32	%	ASTM D573
232°C, 24 hr	34	%	ASTM D573
100% strain, 232°C, 24 hr	31	%	ASTM D573
232°C, 70 hr	27	%	ASTM D573
100% strain, 232°C, 70 hr	27	%	ASTM D573
Change in Ultimate Elongation in Air			ASTM D573
200°C, 70 hr	-43	%	ASTM D573
200°C, 168 hr	-45	%	ASTM D573
232°C, 24 hr	-39	%	ASTM D573
232°C, 70 hr	-43	%	ASTM D573
Change in Durometer Hardness in Air			ASTM D573
Support a, 200°C, 70 hr	-2.0		ASTM D573
Support a, 200°C, 168 hr	1.0		ASTM D573
Support a, 232°C, 24 hr	-1.0		ASTM D573
Support a, 232°C, 70 hr	-2.0		ASTM D573

Additional Information

Mooney Scorch, MS at 121°C, Minimum: 33 in-lbMooney Scorch, MS at 121°C, 5 unit rise: >30 minODR at 177°C, Microdie, 3° Arc, 15 min:ML: 14 in-lbts2: 1.9 mintc90: 3.7 minMc90: 92 in-lbMH: 100 in-lbRosand Capillary Rheometer at 100°C, 1.5 mm Die, L/D=0/112.7 mm/min, 113 s⁻¹: 6.8 MPa50.8 mm/min, 452 s⁻¹: 10.2 MPa127 mm/min, 1130 s⁻¹: 16.1 MPaNominal Viscosity, ML 1 + 10, 121°C: 30Polymer Fluorine Content: 66%

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