

3M™ Dyneon™ Fluoroelastomer FPO 3731

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon Fluoroelastomer FPO 3731 is a high fluorine content peroxide curable extrusion grade, which has been developed for hose applications. The grade provides excellent physical properties and is extremely resistant against fuels and different biodiesel grades (RME or SME).

Special Features

Composition: terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene plus cure site monomer

Process target: extrusion

Excellent flow

Excellent scorch safety

Excellent physical properties

Outstanding resistance against biodiesel

Typical Applications

Dyneon Fluoroelastomer FPO 3731 can be used for manufacturing parts such as fuel line hoses, filler neck hoses, or fuel injector O-rings, among others.

General Information			
Features	High liquidity		
	Fuel resistance		
	Terpolymer		
Uses	O-rings		
	Pipe		
	Fuel line		
Appearance	Opacity		
	White-like		
Forms	Thick sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm ³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	35	MU	Internal method
Fluorine Content	70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	7.30	MPa	DIN 53504
Tensile Strength	20.9	MPa	DIN 53504
Tensile Elongation (Break)	190	%	DIN 53504
Compression Set			
150°C, 22 hr ¹	65	%	ASTM D395
200°C, 70 hr ²	35	%	ASTM D395B

Thermal	Nominal Value	Unit
Glass Transition Temperature	-9.00	°C
NOTE		
1.	on 2 mm disks; 50% deformation VDA 675218	
2.	on buttons	

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