

3M™ Dyneon™ Fluoroelastomer FPO 3730

Fluoroelastomer

3M Advanced Materials Division

Message:

The peroxide curable raw gum FPO 3730 is a high fluorine grade which has been developed for hose applications. It provides high chemical fluid- and fuel resistance, very good extrusion properties and can be easily processed.

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

Typical Applications

Dyneon Fluoroelastomer FPO 3730 is typically used for applications where chemical fluid or fuel resistance is needed, like fuel line hoses and blow-by gas hoses.

General Information			
Features	Workability, good		
	High liquidity		
	Good chemical resistance		
	Fuel resistance		
	Terpolymer		
Uses	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)	74		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	8.40	MPa	DIN 53504
Tensile Strength	23.8	MPa	DIN 53504
Tensile Elongation (Break)	180	%	DIN 53504
Compression Set			
150°C, 22 hr ¹	62	%	ASTM D395

200°C, 70 hr ²	30	%	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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