

# 3M™ Dyneon™ Fluoroelastomer FPO 3520

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ FPO 3520 is a peroxide curable fluoroelastomer terpolymer containing 66 wt% fluorine. FPO 3520 can be used in compression, transfer or injection molding, and extrusion processes.

Special Features

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

Process target: moulding and extrusion

Excellent flow

Excellent scorch safety

Excellent physical properties

Excellent low temperature properties

High resistance against chemical fluids

Typical Applications

Dyneon Fluoroelastomer FPO 3520 is typically used in applications, where low temperature resistance is needed.

General Information			
Features	High liquidity		
	Low temperature resistance		
	Good chemical resistance		
	Terpolymer		
Uses	Low temperature application		
Appearance	White-like		
Forms	Thick sheet		
Processing Method	Extrusion		
	Resin transfer molding		
	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm <sup>3</sup>	Internal method
Mooney Viscosity (ML 1+10, 121°C)	25	MU	Internal method
Fluorine Content	65	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	5.80	MPa	DIN 53504
Tensile Strength	19.3	MPa	DIN 53504
Tensile Elongation (Break)	200	%	DIN 53504
Compression Set			
150°C, 22 hr <sup>1</sup>	62	%	ASTM D395
200°C, 70 hr <sup>2</sup>	32	%	ASTM D395B

Thermal	Nominal Value	Unit
Glass Transition Temperature	-23.0	°C
NOTE		
1.	on 2 mm disks; 50% deformation VDA 675218	
2.	on buttons	

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