

3M™ Dyneon™ Fluoroelastomer FPO 3631

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon Fluoroelastomer FPO 3631 is a medium fluorine content, peroxide curable grade, which has been designed and tested for 2 component injection moulding and standard injection overmoulding processes with DSM Stanyl® Polyamide 46. The product provides excellent physical properties and very broad chemical resistance.

Special Features

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

Process target: two-component moulding or injection overmoulding

Excellent flow

Excellent physical properties

Good low temperature properties

High resistance against chemical fluids

Excellent scorch safety

Typical Applications

Dyneon Fluoroelastomer FPO 3631 can be used for wide range of applications where the elastomer needs to be combined with a stiffening carrier material from DSM Stanyl® Polyamide 46 and also a broad chemical resistance is needed.

General Information			
Features	High liquidity		
	Low temperature resistance		
	Good chemical resistance		
	Terpolymer		
Appearance	White-like		
Forms	Thick sheet		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	37	MU	Internal method
Fluorine Content	67	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	75		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	9.60	MPa	DIN 53504
Tensile Strength	15.2	MPa	DIN 53504
Tensile Elongation (Break)	200	%	DIN 53504
Compression Set ¹ (200°C, 70 hr)	30	%	ASTM D395B
Thermal	Nominal Value	Unit	
Glass Transition Temperature	-19.0	°C	
NOTE			

1. on buttons

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