

3M™ Dyneon™ Fluoroelastomer FE 5610N

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5610N is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FE5610N has an incorporated bisphenol cure system.

Special Features

Composition: dipolymer of vinylidene fluoride and hexafluoropropylene

Process targets: injection and transfer moulding

Proprietary incorporated cure technology

Viscosity modifier

Superior flow over regular Dyneon Fluoroelastomer injection moulding grades

Improved scorch resistance compared to products marketed as Dyneon Fluoroelastomer with a product class "FC"

Excellent mould release

Clean running

Typical Applications

3M™ Dyneon™ Fluoroelastomer FE 5610N is suitable to produce O-rings in an injection moulding process.

General Information			
Features	Good demoulding performance		
Uses	O-rings		
Appearance	Opacity		
	White-like		
Forms	Thick sheet		
Processing Method	Resin transfer molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	17	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	76		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	5.30	MPa	ASTM D412A
Tensile Strength ²	14.0	MPa	ASTM D412A
Tensile Elongation ³ (Break)	220	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr ⁴	23	%	ASTM D1414
200°C, 70 hr ⁵	15	%	ASTM D1414
NOTE			
1.	D mould		
2.	Die D		

3.	D mould
4.	Post cured 16 hours @ 230°C
5.	Post cured 24 hours @ 260°C

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