

3M™ Dyneon™ Fluoroelastomer FE 5530

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5530 is a terpolymer made from hexafluoropropylene, vinylidene fluoride and tetrafluoroethylene. FE 5530 has an incorporated bisphenol cure system.

Special Features

Composition: Low fluorine content terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene

Good compression set resistance

Clean running with excellent mould release

Process target: injection and transfer moulding

Improved low temperature flexibility over standard dipolymers and terpolymers

Proprietary incorporated cure technology

Typical Applications

3M™ Dyneon™ Fluoroelastomer FE 5530 is ideal for automotive fuel system and oil seal applications, especially O-ring seals for fuel injection systems.

General Information			
Features	Low compressive deformability		
	Terpolymer		
	Good demoulding performance		
Uses	O-rings		
	Seals		
	Application in Automobile Field		
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)	42	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	71		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	5.20	MPa	ASTM D412A
Tensile Strength ²	15.4	MPa	ASTM D412A
Tensile Elongation ³ (Break)	220	%	ASTM D412A
Compression Set			ASTM D1414

200°C, 70 hr ⁴	18	%	ASTM D1414
200°C, 70 hr ⁵	17	%	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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