

3M™ Dyneon™ Fluoroelastomer FC 2122

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2122 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2122 has an incorporated bisphenol cure system.

Special Features

Process targets: injection and transfer moulding, extrusion and calendering

Very high elongation

Fast curing

Low viscosity version of 3M™ Dyneon™ Fluoroelastomer FC 2152

Proprietary incorporated cure technology

Excellent mould release

Typical Applications

3M™ Dyneon™ Fluoroelastomer FC 2122 is a universal grade which can be processed using different technologies. It is especially suitable for O-rings and moulded goods.

General Information			
Features	Low viscosity		
	Fast curing		
	Good demoulding performance		
	Extended tensile rate		
Uses	O-rings		
Appearance	Opacity		
	White-like		
Forms	Thick sheet		
Processing Method	Extrusion		
	Resin transfer molding		
	Calendering		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	25	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 3 sec)	72		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	3.30	MPa	ASTM D412A
Tensile Strength ²	14.8	MPa	ASTM D412A
Tensile Elongation ³ (Break)	350	%	ASTM D412A
Compression Set			ASTM D1414

200°C, 70 hr ⁴	28	%	ASTM D1414
200°C, 70 hr ⁵	27	%	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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