

3M™ Dyneon™ Fluoroelastomer FC 2152

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2152 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2152 has an incorporated bisphenol cure system.

Special Features

Composition: dipolymer of vinylidene fluoride and hexafluoropropylene

Process targets: compression and transfer moulding, and calendering

Excellent demoulding of complex geometric profiles

Medium viscosity

Proprietary incorporated cure technology

Higher viscosity counterpart of 3M™ Dyneon™ Fluoroelastomer FC 2122

Typical Applications

3M™ Dyneon™ Fluoroelastomer FC 2152 is suitable for the manufacture of moulded parts with complex shapes which require an excellent demouldability.

General Information	
Features	Good demoulding performance
	Medium viscosity
Appearance	Opacity
	White-like
Forms	Thick sheet
Processing Method	Resin transfer molding
	Compression molding
	Calendering

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	51	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)	3.40	MPa	ASTM D412A
Tensile Strength ²	16.3	MPa	ASTM D412A
Tensile Elongation ³ (Break)	330	%	ASTM D412A
Compression Set ⁴ (200°C, 70 hr)	22	%	ASTM D1414

NOTE	
1.	D mould
2.	Die D
3.	D mould

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