

# 3M™ Dyneon™ Fluoroelastomer FE 5840Q

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5840Q is a terpolymer made from hexafluoropropylene, vinylidene fluoride and tetrafluoroethylene. FE 5840Q has an incorporated bisphenol cure system.

Special Features

Composition: Terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene

Process targets: compression, injection and transfer moulding

Recommended alternative for 3M™ Dyneon™ Fluoroelastomer FX 9038

Recommended for automotive fuel system applications

Excellent mould release

Proprietary incorporated cure technology

Clean running

Typical Applications

3M™ Dyneon™ Fluoroelastomer FE 5840Q is a high fluorine material designed for O-ring and gasket applications.

General Information	
Features	Terpolymer
	Good demoulding performance
Uses	O-rings
	Washer
Appearance	Opacity
	White-like
Forms	Thick sheet
Processing Method	Resin transfer molding
	Compression molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm <sup>3</sup>	Internal method
Mooney Viscosity (ML 1+10, 121°C)	37	MU	Internal method
Fluorine Content	70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>1</sup> (100% Strain)	6.00	MPa	ASTM D412A
Tensile Strength <sup>2</sup>	15.0	MPa	ASTM D412A
Tensile Elongation <sup>3</sup> (Break)	240	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr <sup>4</sup>	35	%	ASTM D1414

200°C, 70 hr <sup>5</sup>	43	%	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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#### Recommended distributors for this material

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