

3M™ Dyneon™ Fluoroelastomer FE 5830Z

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5830Z is a terpolymer made from hexafluoropropylene, vinylidene fluoride and tetrafluoroethylene. FE 5830Z has an incorporated bisphenol cure system.

Special Features

Composition: terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene

Process targets: Extrusion only. Not recommended for moulded goods application

Can be formulated to yield good permeation resistance to automotive fuels

High fluorine extrusion grade

Produces smooth extrudates without the use of processing aids

Proprietary incorporated cure technology

Can be formulated to meet -40°C mandrel bend fuel hose specifications

Typical Applications

3M™ Dyneon™ Fluoroelastomer FE 5830Z is suitable for hoses for the entire fuel system.

General Information			
Features	Terpolymer		
Uses	Pipe		
	Fuel line		
Appearance	Opacity		
	White-like		
Forms	Thick sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm ³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	36	MU	Internal method
Fluorine Content	70	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	73		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	4.30	MPa	ASTM D412A
Tensile Strength ²	11.5	MPa	ASTM D412A
Tensile Elongation ³ (Break)	240	%	ASTM D412A
Compression Set ⁴ (200°C, 70 hr)	44	%	ASTM D1414
NOTE			
1.	D mould		
2.	Die D		
3.	D mould		
4.	Post cured 2 hours @ 180°C		

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