3M™ Dyneon™ Fluoroelastomer FE 5640Q

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5640Q is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FE 5640Q has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: compression moulding
Proprietary incorporated cure technology
Improved cure technology resulting in more consistent part size from successive moulding cycles
Clean running
High viscosity version of FE 5620Q
Improved scorch resistance at high moulding temperatures
Excellent mould release
Compounds prepared from Dyneon FE 5640Q can be formulated to meet Mil-R-83248
Typical Applications
3M™ Dyneon™ Fluoroelastomer FE 5640Q is suitable for the manufacture of O-rings and moulded goods produced by using a compression moulding process.

General Information			
Features	Good demoulding performance Viscosity, High		
Uses	O-rings		
Agency Ratings	MIL R-83248		
Appearance	Opacity White-like		
Forms	Thick sheet		
Processing Method	Compression molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.80	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	40	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	77		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	6.00	MPa	ASTM D412A
Tensile Strength [2]	15.5	MPa	ASTM D412A
Tensile Elongation [3] (Break)	220	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	16	%	ASTM D1414
200°C, 70 hr [5]	12	%	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

Recommended distributors for this material

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