3M™ Dyneon™ Fluoroelastomer FE 5623

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5623 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FE 5623 has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: injection and transfer moulding, extrusion and calendering
Proprietary incorporated cure technology
Improved cure technology resulting in more consistent part size from successive moulding cycles
Faster curing version of 3M™ Dyneon™ Fluoroelastomer FE 5620Q
Improved scorch resistance at high moulding temperatures
Excellent mould release - can be used in automated injection moulding equipment
Clean running
Compounds prepared from Dyneon FE 5623 can be formulated to meet Mil-R-83248
Typical Applications
3M™ Dyneon™ Fluoroelastomer FE 5623 is suitable for usage in injection moulding (e.g. production of O-rings) and extrusion applications.

General Information	
Features	Good demoulding performance
Uses	O-rings
Agency Ratings	MIL R-83248
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/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	24	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	78		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	6.50	MPa	ASTM D412A
Tensile Strength [2]	15.0	MPa	ASTM D412A
Tensile Elongation [3] (Break)	190	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	19	%	ASTM D1414

200°C, 70 hr [5]	18	%	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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