3M™ Dyneon™ Fluoroelastomer FE 5621N

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5621N is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FE 5621N has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: injection and transfer moulding, extrusion and calendering
Improved cure technology resulting in more consistent part size from successive moulding cycles
Low shrinkage
Proprietary incorporated cure technology
Improved scorch resistance at high moulding temperatures
Excellent mould release - can be used in automated injection moulding equipment
Clean running
Typical Applications
3M™ Dyneon™ Fluoroelastomer FE 5621N is suitable to produce O-rings in an injection moulding process.

General Information	
Features	Low shrinkage Good demoulding performance
Uses	O-rings
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)	23	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)	6.50	MPa	ASTM D412A
Tensile Strength [2]	15.4	MPa	ASTM D412A
Tensile Elongation [3] (Break)	200	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	15	%	ASTM D1414

200°C, 70 hr [5]	13	%	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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