3M™ Dyneon™ Fluoroelastomer FE 5642

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5642 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FE 5642 has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Improved scorch resistance at high moulding temperatures
Excellent mould release
Process targets: transfer and compression moulding, bonding and calendering
Proprietary incorporated cure technology
Clean running
Typical Applications
The development of 3M™ Dyneon™ Fluoroelastomer FE 5642 targeted bonded shaft seal applications.

General Information	
Features	Good demoulding performance
Uses	Seals Bonding
Appearance	Opacity White-like
Forms	Thick sheet
Processing Method	Resin transfer molding Compression molding Calendering

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	42	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	71		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	4.20	MPa	ASTM D412A
Tensile Strength [2]	17.8	MPa	ASTM D412A
Tensile Elongation [3] (Break)	290	%	ASTM D412A
Compression Set [4] (200°C, 70 hr)	15	%	ASTM D1414

NOTE	
1.	D mould
2.	Die D

3.	D mould
4.	Post cured 16 hours @ 230°C

Recommended distributors for this material

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