3M™ Dyneon™ Fluoroelastomer FC 2144

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2144 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2144 has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Medium viscosity
Excellent release and hot tear properties essential for demoulding complex geometric profiles and parts containing severe undercuts
Higher viscosity version of 3M™ Dyneon™ Fluoroelastomer FC 2123
Process targets: transfer and compression moulding, bonding and calendering
Proprietary incorporated cure technology
Typical Applications
3M™ Dyneon™ Fluoroelastomer FC 2144 is suitable for the manufacture of moulded goods and products which require a good bonding between rubber and metal.

General Information	
Features	Adhesiveness Good demoulding performance Medium viscosity
Uses	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)	41	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	70		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	4.20	MPa	ASTM D412A
Tensile Strength [2]	17.0	MPa	ASTM D412A
Tensile Elongation [3] (Break)	260	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	18	%	ASTM D1414
200°C, 70 hr [5]	17	%	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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