3M™ Dyneon™ Fluoroelastomer FC 2179

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2179 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2179 has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: compression moulding
Proprietary incorporated cure technology
High viscosity
Excellent compression resistance
Typical Applications
3M™ Dyneon™ Fluoroelastomer FC 2179 is suitable for the manufacture of O-rings with very good compression set resistance.

General Information			
Features	Low compressive deformability Viscosity, High		
Uses	O-rings		
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)	80	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	74		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	7.00	MPa	ASTM D412A
Tensile Strength [2]	16.5	MPa	ASTM D412A
Tensile Elongation [3] (Break)	200	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	13	%	ASTM D1414
200°C, 70 hr [5]	10	%	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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