3M™ Dyneon™ Fluoroelastomer FC 2174

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2174 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2174 has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: compression and transfer moulding, extrusion and calendering
Proprietary incorporated cure technology
Medium viscosity
Excellent compression set resistance
Typical Applications
3M™ Dyneon™ Fluoroelastomer FC 2174 is suitable for the manufacture of O-rings produced with compression moulding.

General Information	
Features	Medium viscosity
Uses	O-rings
Appearance	Opacity White-like
Forms	Thick sheet
Processing Method	Extrusion 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)	40	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)	7.00	MPa	ASTM D412A
Tensile Strength [2]	16.0	MPa	ASTM D412A
Tensile Elongation [3] (Break)	190	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	18	%	ASTM D1414
200°C, 70 hr [5]	12	%	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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China