3M™ Dyneon™ Fluoroelastomer FC 2177

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2177 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2177 has an incorporated bisphenol cure system.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: compression and transfer moulding and calendering
Excellent bonding to metal
Medium viscosity
Proprietary incorporated cure technology
Excellent hot tear strength for removing complex parts from mould (such as shafts seals)
Typical Applications
3M™ Dyneon™ Fluoroelastomer FC 2177 is suitable for shaft seal applications.

General Information	
Features	Medium viscosity
Uses	Metal bonding Seals
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)	34	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)	4.30	MPa	ASTM D412A
Tensile Strength [2]	12.0	MPa	ASTM D412A
Tensile Elongation [3] (Break)	270	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	33	%	ASTM D1414
200°C, 70 hr [5]	29	%	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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