3M™ Dyneon™ Fluoroelastomer FC 2121

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FC 2121 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. FC 2121 has an incorporated bisphenol cure system.
Special Features
Composition: Dipolymer of vinylidene fluoride and hexafluoropropylene
Process targets: injection and transfer moulding, extrusion and calendering
Proprietary incorporated cure technology
Low viscosity
Utilizes 3M™ Dyneon™ Fluoroelastomer FC 2174 cure technology
Typical Applications
3M™ Dyneon™ Fluoroelastomer FC 2121 is suitable for O-rings produced in an injection moulding process. An alternative product is 3M™ Dyneon™ Fluoroelastomer FE 5623.

General Information	
Features	Low viscosity
Uses	O-rings
Appearance	Opacity White-like
Forms	Thick sheet
Processing Method	Extrusion Resin transfer molding Calendering Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm³	
Mooney Viscosity (ML 1+10, 121°C)	24	MU	
Fluorine Content	66	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	78		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	7.00	MPa	ASTM D412A
Tensile Strength [2]	15.5	MPa	ASTM D412A
Tensile Elongation [3] (Break)	180	%	ASTM D412A
Compression Set			ASTM D1414
200°C, 70 hr [4]	20	%	ASTM D1414
200°C, 70 hr [5]	18	%	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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