3M[™] Dyneon[™] Fluoroelastomer FC 1640

Fluoroelastomer

3M Advanced Materials Division

Message:

3M[™] Dyneon[™] Fluoroelastomer FC 1640 is a dipolymer made from hexafluoropropylene and vinylidene fluoride. It is a raw gum without curatives. Special Features

Composition: dipolymer of vinylidene fluoride and hexafluoropropylene

Process targets: transfer and compression moulding, extrusion, calendering and coatings

Medium viscosity gum stock without incorporated curatives

Amine and bisphenol curable

Typical Applications

3M[™] Dyneon[™] Fluoroelastomer FC 1640 is suitable for all sorts of finished products: O-rings, moulded parts, including metal bonding products, extrudates and calendered sheets, depending on the curative package and compound recipe used.

General Information			
Features	Medium viscosity		
Uses	O-rings		
	Metal bonding		
	Sheet		
	Coating application		
Forms	Particle		
Processing Method	Extrusion		
	Resin transfer molding		
	Coating		
	Compression molding		
	Calendering		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	35	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	73		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹ (100% Strain)	6.70	MPa	ASTM D412A
Tensile Strength ²	13.7	MPa	ASTM D412A
Tensile Elongation ³ (Break)	170	%	ASTM D412A
Compression Set (200°C, 70 hr)	15	%	ASTM D1414
NOTE			
1.	D mould		
2.	Die D		
3.	D mould		

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