3M™ Dyneon™ Fluoroelastomer FE 5522

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer FE 5522 is a terpolymer made from hexafluoropropylene, vinylidene fluoride and tetrafluoroethylene. It is a raw gum without curatives.
Special Features
Composition: Low fluorine content terpolymer of vinylidene fluoride, hexyfluoropropylene, and tetrafluoroethylene
Process targets: Injection and transfer moulding
Improved low temperature flexibility over standard dipolymers and terpolymers
Medium viscosity gum stock without incorporated curatives
Amine and bisphenol curable
Typical Applications
3M™ Dyneon™ Fluoroelastomer FE 5522 is a medium viscosity raw gum to be used to adjust parameters, e.g. crosslink density and viscosity.

General Information	
Features	Terpolymer Medium viscosity
Uses	Plastic modification
Forms	Thick sheet
Processing Method	Resin transfer molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	29	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	75		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1] (100% Strain)	6.50	MPa	ASTM D412A
Tensile Strength [2]	13.8	MPa	ASTM D412A
Tensile Elongation [3] (Break)	180	%	ASTM D412A
Compression Set (200°C, 70 hr)	20	%	ASTM D1414

NOTE	
1.	D mould
2.	Die D
3.	D mould

Recommended distributors for this material

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