3M™ Dyneon™ Fluoroelastomer FPO 3632

Fluoroelastomer

3M Advanced Materials Division

Message:

Dyneon Fluoroelastomer FPO 3632 is a medium fluorine content peroxide curable grade, which provides excellent physical properties, very good chemical resistance and improved bonding to silicones. The material is recommended for extrusion and moulding processes.
Special Features
Composition: terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene plus cure site monomer
Process target: moulding and extrusion
Excellent flow and scorch safety
Improved bonding to silicones
Excellent physical properties
Good low temperature properties
High resistance against chemical fluids
Typical Applications
Dyneon Fluoroelastomer FPO 3632 has been designed for hoses as well as for moulded goods. It can be used for manufacturing of multi-layer turbo charger hoses due to its improved bonding to silicones.

General Information	
Features	High liquidity Low temperature resistance Good chemical resistance Terpolymer
Uses	Pipe
Appearance	White-like
Forms	Thick sheet
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 121°C)	37	MU	Internal method
Fluorine Content	67	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	73		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	6.60	MPa	DIN 53504
Tensile Strength	19.4	MPa	DIN 53504
Tensile Elongation (Break)	180	%	DIN 53504
Compression Set			
150°C, 22 hr [1]	48	%	ASTM D395
200°C, 70 hr [2]	26	%	ASTM D395B
Thermal	**Nominal Value**	**Unit**	

Glass Transition Temperature	-19.0	°C

NOTE	
1.	on 2 mm disks; 50% deformation VDA 675218
2.	on buttons

Recommended distributors for this material

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