3M™ Dyneon™ Fluoroelastomer E-20575

Fluoroelastomer

3M Advanced Materials Division

Message:

3M™ Dyneon™ Fluoroelastomer E-20575 is an ultra low viscosity (ULV) fluoroelastomer. E-2055 is an experimental product that has not been introduced or commercialized for general sale. It is a 65.9 % fluorine containing, peroxide curable dipolymer. This product offers excellent flow compared to conventional fluoroelastomers used in many difficult moulding applications.
Special Features
Composition: dipolymer of vinylidene fluoride and hexafluorpropylene (Type 1 FKM ASTM D1418)
Peroxide curable with good steam and water resistance
Excellent flow for moulding complex shapes
High solids (low VOC) coating
Excellent viscosity modifier
Good physical properties with no post cure
Exceptional low temperature cure capability
Typical Applications
Potential applications for Dyneon E-20575 range from moulding complex shapes to high solid sealants and coatings or viscosity modification of higher viscosity elastomers.

General Information			
Features	Ultra Low Viscosity		
	Moisture resistance		
	High liquidity		
	Steam resistance		
Uses	Sealant		
	Plastic modification		
	Coating application		
Appearance	Translucent		
Forms	Thick sheet		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.80	g/cm³	Internal method
Mooney Viscosity (ML 1+10, 100°C)	4	MU	Internal method
Fluorine Content	66	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shaw A [1]	67		ASTM D2240
Shaw A [2]	70		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ASTM D412
100% strain [3]	4.10	MPa	ASTM D412
100% strain [4]	4.80	MPa	ASTM D412
Tensile Strength			ASTM D412

-- [5]	14.4	MPa	ASTM D412
-- [6]	17.7	MPa	ASTM D412
Tensile Elongation			ASTM D412
Fracture [7]	250	%	ASTM D412
Fracture [8]	220	%	ASTM D412
Compression Set			ASTM D395B
200°C, 22 hr [9]	36	%	ASTM D395B
200°C, 70 hr [10]	46	%	ASTM D395B

Thermal	Nominal Value	Unit
Glass Transition Temperature	-20.0	°C

NOTE	
1.	Press Cured 5' @ 177°C
2.	Post Cured 4 hours @ 232°C
3.	Press Cured 5' @ 177°C
4.	Post Cured 4 hours @ 232°C
5.	Press Cured 5' @ 177°C
6.	Post Cured 4 hours @ 232°C
7.	Press Cured 5' @ 177°C
8.	Post Cured 4 hours @ 232°C
9.	Press Cure Only
10.	Post Cure

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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