

## 3M Dyneon™ FT 2481 Fluoroelastomer

Category : Polymer , Thermoset , Fluoropolymer, TS , Rubber or Thermoset Elastomer (TSE)

### Material Notes:

3M™ Dyneon™ Fluoroelastomer FT 2481 can be compounded using standard water cooled internal mixers or two-roll mills with standard fillers and ingredients utilized in typical fluoroelastomer formulations. The “dry” ingredients should be blended before adding to the masticated gum. For best results, Dyneon FT 2481 should be banded on the mill several minutes prior to adding the blended dry ingredients. Once mixed, the compounded stocks have good scorch resistance and storage stability. Composition: Terpolymer of vinylidene fluoride, hexafluoropropylene, and tetrafluoroethylene Terpolymer gumstock without incorporated curatives Process targets: compression molding Improved retention of elongation after long term heat aging compared to conventional 66% fluoropolymer Improved acid resistance and improved resistance to volume swell by organic solvents compared to conventional 66% fluoropolymers FT 2481 is amine or bisphenol curable Information provided by Dyneon, A 3M Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-FT-2481-Fluoroelastomer.php](http://www.lookpolymers.com/polymer_3M-Dyneon-FT-2481-Fluoroelastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.86 g/cc	1.86 g/cc	
Mooney Viscosity	75 @Temperature 121 °C	75 @Temperature 250 °F	ML1+10

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	75	75	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240
Tensile Strength at Break	15.2 MPa	2200 psi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Elongation at Break	220 %	220 %	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
100% Modulus	0.00551 GPa	0.799 ksi	Press Cure 7 minutes @ 177°C, Post Cure 24 hours @ 260°C
Compression Set	24 %	24 %	Aged 70 hours @ 200°C, -214 O-rings; ASTM D395 Method B

Thermal Properties	Metric	English	Comments
Transformation Temperature	-14.0 °C	6.80 °F	TR10; ASTM D1329

Component Elements Properties	Metric	English	Comments
Fluorine, F	68.6 %	68.6 %	

Descriptive Properties	Value	Comments
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<b>Color</b> Descriptive Properties	<b>Translucent Amber</b> Value	Comments
MH, Maximum Torque	20.6 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ML, Minimum Torque	2.7 inch-lb	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
Solubility	Ketones and Esters	
t`50, Time to 50% cure	4.2 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
t`90 - Time to 90% cure @ 177°C - minutes	5.5 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C
ts2 - Time to 2 in-lb rise from min @ 177°C - min	3 minutes	100 cpm, 0.5° Arc, 6 Minutes @ 177°C

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China