

3M Dyneon™ FE 5621 Fluoroelastomer

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

Material Notes:

3M™ Dyneon™ Fluoroelastomer FE 5621 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 FE 5621 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: Di-polymer of vinylidene fluoride and hexafluoropropylene
 Low shrink version of FE 5620Q
 Process targets: injection and transfer molding, extrusion and calendaring
 Improved scorch resistance at high molding temperatures
 Proprietary incorporated cure technology
 Excellent mold release-can be used in automated injection molding equipment
 Improved cure technology resulting in more consistent part size from successive molding cycles
 Clean running
 Information provided by Dyneon, A 3M Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-FE-5621-Fluoroelastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------|---------------------------|----------|
| Specific Gravity | 1.80 g/cc | 1.80 g/cc | |
| Mooney Viscosity | 23 @Temperature 121 °C | 23 @Temperature 250 °F | ML1+10 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|-----------|--|
| Hardness, Shore A | 77 | 77 | Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C; ASTM D2240 |
| Tensile Strength at Break | 15.4 MPa | 2240 psi | Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C |
| Elongation at Break | 195 % | 195 % | Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C |
| 100% Modulus | 0.00655 GPa | 0.950 ksi | Press Cure 5 minutes @ 177°C, Post Cure 24 hours @ 260°C |
| Compression Set | 13 % | 13 % | Aged 70 hours @ 200°C; ASTM D395 |

| Thermal Properties | Metric | English | Comments |
|----------------------------|----------|-----------|------------------|
| Transformation Temperature | -18.0 °C | -0.400 °F | TR10; ASTM D1329 |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Fluorine, F | 65.9 % | 65.9 % | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
|------------------------|-------|----------|

| Color Descriptive Properties | Opaque Off-White Value | Comments |
|-------------------------------------|---------------------------|--------------------------------------|
| MH, Maximum Torque | 21.9 inch-lb | 100 cpm, 0.5° Arc, 6 Minutes @ 177°C |
| ML, Minimum Torque | 0.7 inch-lb | 100 cpm, 0.5° Arc, 6 Minutes @ 177°C |
| Solubility | Ketones and Esters | |
| t`50, Time to 50% cure | 2.6 minutes | 100 cpm, 0.5° Arc, 6 Minutes @ 177°C |
| t`90 - Time to 90% cure | 3.7 minutes | 100 cpm, 0.5° Arc, 6 Minutes @ 177°C |
| ts2 - Time to 2 in-lb rise from min | 2.3 minutes | 100 cpm, 0.5° Arc, 6 Minutes @ 177°C |

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