

Chemours Viton® A-100 with VC50+VC30 Fluoroelastomer Compound

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

Material Notes:

Ultralow viscosity Improved processing increased mold flow can be blended with other Viton® types to enhance processibility and improve flow Excellent mold release Good compression set resistance for low-viscosity types of Viton® Applications Transfer and injection molding of complex shapes such as gaskets Extrusions can be used to modify viscosity of other types of Viton® Solution coating for fabric and tanks or chemical containers Chemours was formed from former DuPont performance chemicals businesses, including the Viton product line, in 2015.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chemours-Viton-A-100-with-VC50VC30-Fluoroelastomer-Compound.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------------|---------------------------|--|
| Mooney Viscosity | 29 @Temperature 121 °C | 29 @Temperature 250 °F | ML (1+10), Uncompounded Viton; ASTM D1646 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|-------------------------------|
| Hardness, Shore A | 52 | 52 | 24 hours Postcure; ASTM D2240 |
| | 70 | 70 | No Postcure; ASTM D2240 |
| Tensile Strength at Break | 8.30 MPa | 1200 psi | No Postcure; ASTM D412 |
| | 8.90 MPa | 1290 psi | 24 hours Postcure; ASTM D412 |
| Elongation at Break | 179 % | 179 % | 24 hours Postcure; ASTM D412 |
| | 252 % | 252 % | No Postcure; ASTM D412 |
| 100% Modulus | 0.00310 GPa | 0.450 ksi | No Postcure; ASTM D1414 |
| | 0.00420 GPa | 0.609 ksi | 24 hours Postcure; ASTM D1414 |
| Compression Set | 10 % @Temperature 23.0 °C, Time 252000 sec | 10 % @Temperature 73.4 °F, Time 70.0 hour | O-Rings; ASTM D395B |
| | 20 % @Temperature 200 °C, Time 252000 sec | 20 % @Temperature 392 °F, Time 70.0 hour | O-Rings; ASTM D395B |
| | 21 % @Temperature 232 °C, Time 79200 sec | 21 % @Temperature 450 °F, Time 22.0 hour | O-Rings; ASTM D395B |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------------|------------------|----------|
| Processing Temperature | 177 °C | 351 °F | Cure |
| | @Time 601 sec | @Time 0.167 hour | |
| | 232 °C | 450 °F | Postcure |
| | @Time 86400 sec | @Time 24.0 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|---------------------|
| Formulation as Tested | 0.6 | Viton® Curative #30 |
| | 2 | Viton® Curative #50 |
| | 25 | MT Black |
| | 3 | MgO |
| | 6 | Ca(OH) ₂ |
| | 97.5 | A-100 |

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