

## Seals Eastern 5795 Fluorocarbon-Elastomer

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

### Material Notes:

Seals Eastern's formulated Viton® elastomers can be utilized in seals, o-rings, gaskets, packings and other applications where thermal stability and chemical resistance are required. Features: Type 3 (Viton GFLT) Low temperature service Fuel and chemical resistance Viton® is a registered trademark of DuPont. Information provided by Seals Eastern.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Seals-Eastern-5795-Fluorocarbon-Elastomer.php](http://www.lookpolymers.com/polymer_Seals-Eastern-5795-Fluorocarbon-Elastomer.php)

| Physical Properties | Metric    | English   | Comments      |
|---------------------|-----------|-----------|---------------|
| Specific Gravity    | 1.88 g/cc | 1.88 g/cc | ASTM D297, 15 |

| Mechanical Properties | Metric         | English        | Comments                                |
|-----------------------|----------------|----------------|-----------------------------------------|
| Hardness, Shore A     | >= 87          | >= 87          | ASTM D2240                              |
|                       | 93             | 93             | Average; ASTM D2240                     |
|                       | 93             | 93             | Dry Heat Aging 392°F; 70 hr; ASTM D865  |
|                       | 94             | 94             | Dry Heat Aging 392°F; 168 hr; ASTM D865 |
|                       | 94             | 94             | Dry Heat Aging 392°F; 336 hr; ASTM D865 |
| Tensile Strength      | >= 12.30 MPa   | >= 1784 psi    | ASTM D412 Method A                      |
|                       | 13.76 MPa      | 1996 psi       | Average; ASTM D412 Method A             |
|                       | 15.28 MPa      | 2216 psi       | Dry Heat Aging 392°F; 168 hr; ASTM D865 |
|                       | 15.42 MPa      | 2236 psi       | Dry Heat Aging 392°F; 70 hr; ASTM D865  |
|                       | 16.38 MPa      | 2375 psi       | Dry Heat Aging 392°F; 336 hr; ASTM D865 |
| Tensile Stress        | 5.75 MPa       | 834 psi        | Average; ASTM D412 Method A             |
|                       | @Strain 25.0 % | @Strain 25.0 % |                                         |
|                       | >= 8.094 MPa   | >= 1174 psi    | ASTM D412 Method A                      |
|                       | @Strain 50.0 % | @Strain 50.0 % |                                         |
|                       | 8.391 MPa      | 1217 psi       | Average; ASTM D412 Method A             |
|                       | @Strain 50.0 % | @Strain 50.0 % |                                         |
| Elongation at Break   | >= 85 %        | >= 85 %        | ASTM D412 Method A                      |

| Mechanical Properties | Metric                                    | English                                 | Comments                                 |
|-----------------------|-------------------------------------------|-----------------------------------------|------------------------------------------|
|                       | 103 %                                     | 103 %                                   | Dry Heat Aging 392Â°F; 336 hr; ASTM D865 |
|                       | 107 %                                     | 107 %                                   | Dry Heat Aging 392Â°F; 70 hr; ASTM D865  |
|                       | 109 %                                     | 109 %                                   | Dry Heat Aging 392Â°F; 168 hr; ASTM D865 |
| Modulus of Elasticity | 0.0425 GPa                                | 6.16 ksi                                | Calculated; ASTM D412 Method A           |
| Shear Modulus         | 0.01415 GPa                               | 2.053 ksi                               | Calculated; ASTM D412 Method A           |
| Secant Modulus        | 0.03939 GPa                               | 5.713 ksi                               | ASTM D412 Method A                       |
| Tear Strength Test    | 201                                       | 201                                     | psi; ASTM D624, Die B                    |
| Compression Set       | 20 %                                      | 20 %                                    | ASTM D395, Test B                        |
|                       | @Temperature 200 Â°C,<br>Time 79200 sec   | @Temperature 392 Â°F,<br>Time 22.0 hour |                                          |
|                       | 24 %                                      | 24 %                                    |                                          |
|                       | @Temperature 200 Â°C,<br>Time 252000 sec  | @Temperature 392 Â°F,<br>Time 70.0 hour |                                          |
|                       | 37 %                                      | 37 %                                    |                                          |
|                       | @Temperature 200 Â°C,<br>Time 1.21e+6 sec | @Temperature 392 Â°F,<br>Time 336 hour  |                                          |

| Thermal Properties               | Metric    | English   | Comments                                 |
|----------------------------------|-----------|-----------|------------------------------------------|
| Maximum Service Temperature, Air | 204 Â°C   | 400 Â°F   |                                          |
| Minimum Service Temperature, Air | -31.1 Â°C | -24.0 Â°F | Retraction Temperature, TR10; ASTM D1329 |

| Processing Properties | Metric    | English   | Comments |
|-----------------------|-----------|-----------|----------|
| Shelf Life            | 240 Month | 240 Month |          |

| Descriptive Properties                             | Value | Comments           |
|----------------------------------------------------|-------|--------------------|
| Strain Energy/ Unit Volume at 20% Elongation (psi) | 110   | ASTM D412 Method A |

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