

## Teknor Apex Flexalloy® 89501-83 Polyvinyl Chloride, Elastomer

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Flexible Grade

### Material Notes:

Notes: 105°C Insulation; RoHS Compliant Features: Flame Retardant; High Heat Resistance; Low Temperature Flexibility Uses Wet Rated Insulation Wire Types: NISPE-1; NISPE-2; SE; SEO; SEOW; SEW; SJE; SJE0; SJEOW; SJEW; SPE-1; SPE-2; SPE-3; SRDE; SVE; SVE0; TF; TFF; THHW; THW; TW Agency Ratings: UL Class 11; UL Class 12; UL Class 36; UL Class 43; UL QMTT2 .E73402 Forms: Pellets Information Provided by Teknor Apex

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Teknor-Apex-Flexalloy-89501-83-Polyvinyl-Chloride-Elastomer.php](http://www.lookpolymers.com/polymer_Teknor-Apex-Flexalloy-89501-83-Polyvinyl-Chloride-Elastomer.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.28 g/cc | 1.28 g/cc | ASTM D792 |

| Mechanical Properties     | Metric   | English  | Comments               |
|---------------------------|----------|----------|------------------------|
| Hardness, Shore A         | 83       | 83       | 15 seconds; ASTM D2240 |
| Tensile Strength at Break | 17.9 MPa | 2600 psi | ASTM D638              |
| Elongation at Break       | 250 %    | 250 %    | ASTM D638              |

| Thermal Properties               | Metric   | English  | Comments                  |
|----------------------------------|----------|----------|---------------------------|
| Maximum Service Temperature, Air | 105 °C   | 221 °F   | Continuous Use; ASTM D794 |
| Brittleness Temperature          | -45.0 °C | -49.0 °F | ASTM D746                 |
| Oxygen Index                     | 26 %     | 26 %     | ASTM D2863                |

| Electrical Properties | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Volume Resistivity    | 5.80e+13 ohm-cm       | 5.80e+13 ohm-cm       | ASTM D257 |
| Dielectric Constant   | 3.34                  | 3.34                  | ASTM D150 |
|                       | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz |           |
|                       | 4.98                  | 4.98                  | ASTM D150 |
|                       | @Frequency 1000 Hz    | @Frequency 1000 Hz    |           |
| Dissipation Factor    | 0.056                 | 0.056                 | ASTM D150 |
|                       | @Frequency 1000 Hz    | @Frequency 1000 Hz    |           |
|                       | 0.088                 | 0.088                 | ASTM D150 |
|                       | @Frequency 1.00e+6    | @Frequency 1.00e+6    |           |

| Electrical Properties  | Hz<br>Metric | Hz<br>English | Comments |
|------------------------|--------------|---------------|----------|
|                        |              |               |          |
| Descriptive Properties | Value        |               | Comments |
| Appearance             | Opaque       |               |          |

**Contact Songhan Plastic Technology Co.,Ltd.**

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