

Greene Tweed Avalon[®] 1 PTFE

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Molded

Material Notes:

Products made from Avalon[®] thermoplastics are constructed from proprietary high-performance reinforced PTFE material. Greene, Tweeds Avalon thermoplastics, available in grades ranging from virgin to reinforced, exhibit low friction while being chemically inert. Avalon thermoplastics can be custom designed to for each unique application. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-Avalon-1-PTFE.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|---------------------------------------|
| Specific Gravity | 2.18 g/cc | 2.18 g/cc | ASTM D792 |
| Deformation | 7.0 % | 7.0 % | 2000 psi 78 [°] F; ASTM D621 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------------|----------------------------------|----------------------------------|------------|
| Tensile Strength, Yield | 34.5 MPa | 5000 psi | ASTM D1457 |
| Elongation at Break | 350 % | 350 % | ASTM D1457 |
| Shear Strength | 13.1 MPa | 1900 psi | ASTM D732 |
| | @Temperature 204 [°] C | @Temperature 400 [°] F | |
| | 14.5 MPa | 2100 psi | ASTM D732 |
| | @Temperature 149 [°] C | @Temperature 300 [°] F | |
| | 14.8 MPa | 2150 psi | ASTM D732 |
| @Temperature 93.3 [°] C | @Temperature 200 [°] F | | |
| Coefficient of Friction, Dynamic | 16.5 MPa | 2400 psi | ASTM D732 |
| | @Temperature 65.6 [°] C | @Temperature 150 [°] F | |
| Coefficient of Friction, Static | 20.7 MPa | 3000 psi | ASTM D732 |
| | @Temperature 37.8 [°] C | @Temperature 100 [°] F | |
| | 25.5 MPa | 3700 psi | ASTM D732 |
| | @Temperature 26.7 [°] C | @Temperature 80.0 [°] F | |

| K (wear) Factor | Metric | English | Comments |
|------------------------------|--|---|-----------------|
| Mechanical Properties | $5040 \times 10^{-8} \text{ mm}^3/\text{N}\cdot\text{m}$ | $2500 \times 10^{-10} \text{ in}^3/\text{lb}\cdot\text{hr}$ | |

| Descriptive Properties | Value | Comments |
|-------------------------------|--------------|-----------------|
| Color | White | |

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