

Greene Tweed ARHT Abrasive-Resistant Thermoplastic

Category : Polymer , Thermoplastic

Material Notes:

ARHT is a proprietary thermoplastic material specifically developed for use as bushings, bearings and wear rings in pumps handling abrasive media up to 250°F (121°C). ARHT provides outstanding chemical, thermal shock and impact resistance, making it a better wear material than traditional rubber, ceramic or bronze materials. Greene Tweed's proprietary AR thermoplastic materials exhibit outstanding wear characteristics in media containing solids. AR combines excellent abrasive resistance, good dry run capability and superior vibration dampening characteristics with no hydrolysis or swell. ARHT works well in a variety of abrasive pump applications including those working with circulating water, open and closed cooling water, river water, screen wash and crude oil pumps. When using ARHT pump users can operate their equipment with much tighter clearances, boosting efficiency and improving process reliability. Applications: Circulating water pumps, Crude oil multistage pumps, Open and closed cooling water pumps, River water pumps, Screen wash pumps, Sump pumps. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-AR-HT-Abrasive-Resistant-Thermoplastic.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.63 g/cc | 1.63 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|----------|----------|---|
| Hardness, Shore D | 80 | 80 | ASTM D2240 |
| Tensile Strength, Yield | 35.2 MPa | 5100 psi | ASTM D638 |
| Elongation at Break | 2.2 % | 2.2 % | ASTM D1457 |
| Tensile Modulus | 3.18 GPa | 461 ksi | ASTM D638 |
| Flexural Strength | 60.0 MPa | 8700 psi | ASTM D790 |
| Flexural Modulus | 3.41 GPa | 495 ksi | Flexural 0.5% Secant Modulus; ASTM D790 |
| Compressive Strength | 67.6 MPa | 9800 psi | ASTM D695 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------------------|---------------------|----------|
| CTE, linear | 28.8 µm/m-°C | 16.0 µin/in-°F | |
| | @Temperature 100 °C | @Temperature 212 °F | |
| Maximum Service Temperature, Air | 121 °C | 250 °F | |
| Minimum Service Temperature, Air | -73.3 °C | -100 °F | |

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