

WR® 300

Polyetheretherketone

Greene, Tweed & Co.

Message:

WR® 300 is a carbon-fiber reinforced compression molded PEEK™ often selected by pump manufacturers and users for pump bushings and case or impeller wear rings. Maximum service life is achieved in clean, lubricated and/or moist environments.

WR 300 allows the pump user to increase pump efficiency by running tighter wear ring clearances while decreasing potential pump damage when pumps are cavitated or experience radial bearing failures.

| General Information | | | |
|---|-------------------------------|-------------------|-------------|
| Filler / Reinforcement | Carbon Fiber | | |
| Features | Good Chemical Resistance | | |
| | Good Impact Resistance | | |
| | Good Thermal Shock Resistance | | |
| | Low Friction | | |
| Uses | Bearings | | |
| | Housings | | |
| | Pump Parts | | |
| Appearance | Black | | |
| Forms | Customizable Forms | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.43 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 106 | | ASTM D785 |
| Durometer Hardness (Shore D) | 93 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 10800 | MPa | ASTM D638 |
| Tensile Strength (Break) | 134 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1.8 | % | ASTM D638 |
| Flexural Modulus | 10900 | MPa | ASTM D790 |
| Flexural Strength | 212 | MPa | ASTM D790 |
| Compressive Strength | 202 | MPa | ASTM D695 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 316 | °C | ASTM D648 |
| CLTE - Flow (23 to 143°C) | 2.8E-5 | cm/cm/°C | |
| Maximum Service Temperature | 135 | °C | |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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