

## Greene Tweed WR<sup>®</sup>300 PEEK, Carbon Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

### Material Notes:

WR<sup>®</sup>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. WR300 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. Information provided by Greene Tweed.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Greene-Tweed-WR-300-PEEK-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Greene-Tweed-WR-300-PEEK-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	106	106	ASTM D785
Hardness, Shore D	93	93	ASTM D2240
Tensile Strength at Break	134 MPa	19400 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D1457
Tensile Modulus	10.8 GPa	1570 ksi	ASTM D638
Flexural Strength	212 MPa	30700 psi	ASTM D790
Flexural Modulus	10.9 GPa	1580 ksi	ASTM D790
Compressive Strength	202 MPa	29300 psi	ASTM D695

Thermal Properties	Metric	English	Comments
CTE, linear	27.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 22.8 - 143 $\text{Å}^\circ\text{C}$	@Temperature 73.0 - 290 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	316 $\text{Å}^\circ\text{C}$	600 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Color	Black	

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