

WR® 525

Polyetheretherketone

Greene, Tweed & Co.

Message:

WR® 525 is a thermoplastics composite consisting of carbon fiber in a PEEK™ matrix. WR provides excellent chemical resistance, non-galling and nonseizing properties, impact resistance and thermal shock and hydrolysis resistance. WR 525 allows the pump user to increase pump efficiency by running tighter wear rings clearances while decreasing potential pump damage when pumps are cavitating or experience down-line bearing failures.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Chemical Resistance		
	Good Impact Resistance		
	Good Thermal Shock Resistance		
	Low Friction		
Uses	Bearings		
Appearance	Black		
Forms	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	98		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D3039
-- ¹	10200	MPa	
-- ²	138000	MPa	
Tensile Strength			ASTM D3039
Break ³	86.2	MPa	
Break ⁴	207	MPa	
Compressive Modulus ⁵	124000	MPa	ASTM D695
Compressive Strength ⁶	1360	MPa	ASTM D695
Thermal	Nominal Value		
Maximum Service Temperature	525		
NOTE			
1.	Perpendicular to fiber		
2.	Parallel to fiber		
3.	Perpendicular to fiber		
4.	Parallel to fiber		
5.	Parallel to fiber		
6.	Parallel to fiber		

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