

# WR® FP100

Polyetheretherketone  
Greene, Tweed & Co.

Message:

Greene, Tweed WR® FP100, a reinforced compression-molded polyketone, offers excellent wear resistance with FDA compliance. The typical properties and physical characteristics of WR FP100 make it well suited for use as bushings and wear rings in rotating equipment. WR FP100's FDA compliance allows it to be used in pump applications for drinking water, food processing and pharmaceutical manufacturing.

General Information			
Filler / Reinforcement	Filler		
Features	Good Chemical Resistance		
	Good Wear Resistance		
	Low Friction		
	Machinable		
	Vibration Damping		
Uses	Bushings		
	Pump Parts		
	Washer		
Agency Ratings	FDA Unspecified Rating		
Appearance	Tan		
Forms	Preformed Parts		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	97		ASTM D785
Durometer Hardness (Shore D)	89		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 0.5% Secant	6140	MPa	ASTM D638
Tensile Strength (Break)	68.3	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus - 0.5% Secant	6450	MPa	ASTM D790
Flexural Strength (Break)	148	MPa	ASTM D790
Compressive Strength	223	MPa	ASTM D695
Flexural Strain at Break	5.3	%	ASTM D790
Service Temperature	-73 to 135	°C	

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