



## dures® 150 Non-Metallic Wear Material for Pump Applications

**Grade Number:** PJ00M

**Material references:** dures® 150, A655

**Polymer Family:** PPS (Poly Phenylene Sulfide)

**Description:** Bearing Grade PPS - Compression Molded Stock Shapes and Machined Parts

Property	ASTM Method	Specification Limits	Typical Values	Units
Hardness	D2240	80 - 90	85	SHORE-D
Specific Gravity	D792	1.48 - 1.54	1.51	
Elongation at Break	D1708	1.2 Min	2.5	%
Tensile Strength at Break	D1708	5,100 (35.2) Min	6,500 (44.8)	PSI (MPa)
Tensile Modulus, Secant 0.5%	D1708		4.2 X 10 <sup>5</sup> (2896)	PSI (MPa)
Compressive Strength	D695		15,000 (103.4)	PSI (MPa)
Compressive Modulus at Max. Load	D695		2.4 X 10 <sup>5</sup> (1655)	PSI (MPa)
Flexural Strength	D790		18,000 (124.1)	PSI (MPa)
Flexural Modulus	D790		8 X 10 <sup>5</sup> (5,516)	PSI (MPa)
Coefficient of Thermal Expansion (78 to 400°F)	D696		3.7 X 10 <sup>-5</sup> (6.7x10 <sup>-5</sup> )	1/F° (1/°C)
Wear Rate @ PV=25,000 PSI.FPM	D3702		6.95 X 10 <sup>-6</sup>	Inch per minute
Coefficient of Friction	D3702		.446	
Recommended Service Temperature			-100 (-73) Min Continuous 150 (66) Max Continuous 180 (82) Short Excursion	°F (°C)