



**Celazole® TL-60 - Self Lubricating PBI-PEEK Blend**

PROPERTIES	ASTM Method	English Value	Metric Value
<b>MECHANICAL</b>			
Tensile Strength	D-638	14 kpsi	96 MPa
Tensile Modulus		1990 kpsi	13,700 MPa
Tensile Elongation		0.9%	0.9%
Flexural Strength	D-790	23 kpsi	158 MPa
Flexular Modulus		1790 kpsi	12,300 MPa
Compressive Strength	D-695	18 kpsi	123 MPa
Compressive Modulus		740 kpsi	5100 MPa
<b>TRIBOLOGICAL *</b>			
Wear Rate		0.43 in/1000 hrs	11 mm/1000 hrs
Running Temperature		293°F	145°C
Static Coefficient of Friction		0.30	0.30
Dynamic Coefficient of Friction		0.08	0.08
* Test Conditions Mating Material – 1018 Steel Pressure – 100 psi Velocity – 1000 ft/min Surface Finish – 16 rms			
<b>THERMAL</b>			
Coefficient of Linear Thermal Expansion 75-300°F	TMA	14 X 10 <sup>-6</sup> in/in°F	26µm/m°C
Heat Capacity @ 158°F	DSC	0.28 Btu/lb°F	1160 J/kg°C
Heat Deflection Temperature	D-648	590°F	310°C
Temperature of Initial (5%) Weight Loss In: Air Nitrogen	TGA TGA	1116°F 602°C	602°C 606°C
Thermal Conductivity @ 70°F	F-433	5.3 Btu-in/hr•ft <sup>2</sup> °F	0.76 W/M°C
<b>OTHER</b>			
Specific Gravity		1.4	1.4
Hardness, Rockwell A	D-785	24	24
Poisson's Ratio		0.42	0.42
Water Absorption 24 hrs @ 73°F @ Equilibrium	D-570	0.20% 3.80%	0.20% 3.80%

Call Professional Plastics at **(888) 995-7767** or  
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 Order Online at [www.professionalplastics.com](http://www.professionalplastics.com)

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