# Celazole® (T Series) TL-60

### Polybenzimidazole

PBI Performance Products, Inc.

#### Message:

General Information

Celazole TL-60 is a lube grade blend offering superior wear resistance, low friction, chemical resistance and high load bearing capability. Well-suited for rotor vanes, thrust bearings, plane bearings, bushings and other friction management applications - particularly under load.

General information				
Additive	Lubricant			
Features	Good Chemical Resistance			
	Good Wear Resistance			
	Low Friction			
	Lubricated			
Uses	Bearings			
	Bushings			
Forms	Pellets			
Processing Method	Extrusion			
	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.43	g/cm³		
Water Absorption			ASTM D570	
23°C, 24 hr	0.20	%		
Equilibrium	3.8	%		
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (A-Scale)	24		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	17900	МРа	ASTM D638	
Tensile Strength	110	МРа	ASTM D638	
Tensile Elongation (Break)	0.90	%	ASTM D638	
Flexural Modulus	13100	МРа	ASTM D790	
Flexural Strength	159	МРа	ASTM D790	
Compressive Modulus	5100	МРа	ASTM D695	
Compressive Strength	124	МРа	ASTM D695	
Poisson's Ratio	0.42			
Coefficient of Friction <sup>1</sup>				
vs. Steel - Dynamic	0.050			
vs. Steel - Static	0.30			

Wear Rate	0.200	in/1000 hr	
Heat Capacity (70°C)	1170	J/kg/°C	DSC
Running Temperature	177	°С	
Temperature of Intial Weight Loss			Internal Method
Air	602	°С	
Nitrogen	606	°С	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	310	°C	ASTM D648
CLTE - Flow (24 to 149°C)	2.5E-5	cm/cm/°C	TMA
Thermal Conductivity (21°C)	0.76	W/m/K	ASTM F433
NOTE			

Mating Material - 1018 Steel, Pressure - 125 psi, Velocity - 800 ft/min, Surface Finish - 16 rms

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