

# Celazole<sup>®</sup> TKL-60

## Self Lubricating Melt Processable PBI/PEKK

### Typical Properties

PROPERTIES	ASTM METHOD	ENGLISH VALUE	METRIC VALUE	
<b>MECHANICAL</b>				
Tensile Strength	D-638	18 kpsi	125 MPa	
Modulus		2510 kpsi	17,300 MPa	
Elongation		1.0 %	1.0 %	
<b>Flex Strength</b>				
Modulus	D-790	26 kpsi	180 MPa	
Elongation		1.3 %	1.3 %	
<b>THERMAL</b>				
Glass Transition (1 <sup>st</sup> /2 <sup>nd</sup> )	DSC	340F/ 797F	171C/ 425C	
Melt Point	DSC	658F	348C	
Thermal Conductivity 25C/ 100C	C-518	3.0/ 3.5 BTU·in/hr·ft <sup>2</sup> °F	0.43/ 0.50 W/mK	
<b>OTHER</b>				
Specific Gravity		1.43	1.43	
Hardness, Rockwell E	D-785	72	72	
<b>TRIBOLOGICAL</b>				
		PV 50K (psi-ft/min)	PV 125K (psi-ft/min)	PV 250K (psi-ft/min)
Dynamic Coef. Friction				
50 fpm		0.08	0.06	0.06
800 fpm		0.12	0.06	
Wear Factor K (in <sup>3</sup> min/ft·lb·hr) x 10 <sup>-10</sup>				
50 fpm		31	15	9
800 fpm		47	21	

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