

DATA SHEET

BEARING GRADE RYTON

Compression Molded PPS (Polyphenylene Sulfide) with Carbon, Graphite, and PTFE fillers

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.55
Tensile Strength	psi	10,000
Tensile Modulus	psi	800,000
Elongation (at break)	%	1.5
Flexural Strength	psi	15,000
Flexural Modulus	psi	1,000,000
Compressive Strength	psi	15,000
Hardness, Rockwell	-	M93
Coefficient of Friction (Dry vs. Steel)	-	.20
Limiting PV (with 4:1 safety factor)	psi x fpm	25,000
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	1.20×10^{-5}
Heat Deflection Temperature (264 psi)	F	490
Glass Transition Temperature	F	230
Continuous Service Temperature	F	450
Thermal Conductivity	BTU/in/hr.ft.F	2.20
ELECTRICAL		
Dielectric Strength	volts/mil	500
Volume Resistivity	ohm-cm	$<10^5$
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.02
Water Absorption, Immersion, Saturation	% by wt.	.03

ENGINEERING NOTES:

- * Outstanding chemical resistance
- * Excellent slip-stick performance
- * Limited abrasion resistance
- * Cost effective option to PEEK

