



CT Gasket & Polymer Co., Inc.

DEL 8819 Emmott Rd, Houston, TX 77040

MAIL P.O. Box 40940, Houston, TX 77240-0940

TEL (713) 856-8667 / (800) 299-1685

FAX (713) 856-7317

WEB www.ctgasket.com

## PPS (Ryton®)

**PPS (Polyphenylene Sulfide) products offer the broadest resistance to chemicals of any advanced engineering plastics. They have no known solvents below 392° F and offers inertness to steam, strong bases, fuels, and acids. CTG carries PPS in unfilled, 40% glass for added strength and a bearing grade that is self lubricating. PPS has essentially zero moisture absorption and can be machined to tight tolerances.**

### *TYPICAL PHYSICAL PROPERTIES*

PROPERTY	UNITS	ASTM	UNFILLED	40% GLASS	BEARING GRADE
Specific Gravity, 73 Deg. F.	-	D792	1.35	1.7	1.55
Tensile Strength, 73 Deg. F.	psi	D-638	13,500	13,000	10,000
Tensile Modulus of Elast, 73 Deg. F.	psi	D-638	500,000	730,000	800,000
Elongation, 73 Deg. F.	%	D-638	15	2	1.5
Flexural Strength, 73 Deg. F.	psi	D-790	21,000	23,000	15,000
Flexural Modulus of Elast., 73 Deg. F.	psi	D-790	575,000	1,000,000	1,000,000
Shear Strength, 73 Deg. F.	psi	D-732	9,000	-	-
Compressive Strength	psi	D-695	21,500	24,000	15,000
Coefficient of Friction (Dry vs. Steel)	-	-	0.4	-	0.2
Izod Impact (notched), 73 Deg. F.	ft lb/in	D-256	0.6	1.0	1.0
Coefficient of Linear Therm. Expansion	in/in/F.	E-381	2.8 x 10 <sup>(-5)</sup>	2.5 x 10 <sup>(-5)</sup>	1.2 x 10 <sup>(-5)</sup>
Heat Deflection Temp. @ 264 psi	Deg. F.	D-648	250	490	490
Melting Point	Deg. F.	D-789	540	540	540
Continuous Service Temp., Air, Max.	Deg. F.	-	425	450	450
Dielectric Strength	V/mil	D-149	540	385	-
Volume Resistivity	ohm-cm	D-257	4.5 X 10 <sup>(16)</sup>	-	-
Dielectric Constant, 60Hz	-	D-150	3.0	-	-
Water Absorption, Immersion - 24 hrs.	%	D-570	0.01	0.02	0.02
Water Absorption, Saturation	%	D-570	0.03	0.03	0.03

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability.