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## **Material Data Sheet**

Material: Quadrant Bearing-Grade PPS

Polyphenylene Sulfide (Ryton®)

This grade is an internally lubricated and carbon fiber reinforced compression molded PPS offering a low coefficient of thermal expansion and uncompromised chemical resistance. It is well suited for and wear applications or when an electrically conductive material is required. PPS (polyphenylene sulfide) products offer the broadest resistance to chemicals of any advanced engineering plastic. They have no known solvents below 392°F (200°C) and offer inertness to steam, strong bases, fuels and acids. Minimal moisture absorption and a very low coefficient of linear thermal expansion, combined with Quadrant's proprietary stress relieving processes, make these PPS products ideally suited for precise tolerance machined components. In addition, PPS products exhibit excellent electrical characteristics and are inherently flame retardant.

D792 D638	1.52	
D638		
	0 /	
Dead	2,100	psi
D638	980,000	psi
D638	1	%
D790	10,000	psi
D790	820,000	psi
D732	·	psi
D695	15,000	psi
D695	800,000	psi
D785	M93 (R126)	
D2240	D86	
D256 Type A	1	ft-lb/in of notch
QTM 55007	0.2	
QTM 55007	25,000	ft.lbs./in.2 min
QTM 55010	800	in.3-min/ft.lbs.hr
E-831 (TMA)	1.7 x 10 <sup>-5</sup>	in/in./°F
D648	490	°F
D3418	N/A	°F
D3418	540	°F
	450	°F
F433	2.2	BTU-in/hr-ft <sup>2</sup> -°F
D149		Volts/mil
	>10 <sup>5</sup>	ohm/square
	- 10	311111094410
		+
	V-0	†
10-01		†
	D790 D732 D695 D695 D785 D2240 D256 Type A QTM 55007 QTM 55010  E-831 (TMA) D648 D3418 D3418	D790         820,000           D732         15,000           D695         800,000           D785         M93 (R126)           D2240         D86           D256 Type A         1           QTM 55007         0.2           QTM 55010         800           E-831 (TMA)         1.7 x 10 <sup>-5</sup> D648         490           D3418         N/A           D3418         540           F433         2.2           D149         EOS/ESD S11.11         >10 <sup>5</sup> D150         D150