

## Technical Data Sheet **PPS 4010 GZ-BK**

Duron PPS 4010 GZ-BK is a polyphenylene Sulfide resin designed for wear resistance and reduced friction. It offers a superior combination of mechanical, electrical, and thermal properties. It provides outstanding processability and chemical resistance.

<b>Mechanical</b>	ASTM	English	Metric
Tensile Strength at Yield	D 638	24,500 psi.	169 Mpa
Elongation at Fail	D 638	1.5%	1.5%
Elongation at Yield	D 638	1.5%	1.5%
Flexural Modulus	D 790	2,000 ksi.	13,800 Mpa
Flexural Strength	D 790	35,000 psi.	240 Mpa
Izod Impact Strength, Notched	D 256	1.3 ft-lb/in	11 kJ/m <sup>2</sup>
Izod Impact Strength, Unnotched	D 256	10.0 ft-lb/in	50 kJ/m <sup>2</sup>
<b>Thermal</b>			
Deflection Temperature @264 psi.	D 648	510 F	265 C
<b>Misc.</b>			
Specific Gravity	D 792	1.75	1.75
Water Absorption (24hr.)	D 570	0.02%	0.02%
Hardness, Rockwell M			
Melt Flow Rate, 337C/6.6 kgf	D 1238		
Mold Shrinkage, flow, 125-180 mil	D 955	2 in/in E-3	2 in/in E-3
Mold Shrinkage, xflow, 125-180 mil	D 955	5 in/in E-3	5 in/in E-3

The data listed above are typical properties, and as such are dependent on processing conditions. No warranties, expressed or implied, including patent warranties, or warranties of merchantability or fitness for use, are made with respect to the product information.

