

## Technical Data Sheet **Duron PPS 70R**

ProPolymers PPS 70R is a fiberglass and mineral reinforced polyphenylene sulfide compound that offers a superior combination of mechanical, electrical, and thermal properties. PPS is inherently flame resistant with low smoke emission. It provides outstanding processability and chemical resistance.

<b>Mechanical</b>	ASTM	English	Metric
Tensile Strength at Yield	D 638	24.6 ksi.	170 Mpa
Elongation at Fail	D 638	1.0 %	1.0 %
Elongation at Yield	D 638	NA	NA
Flexural Modulus	D 790	2,250 ksi.	15,500 Mpa
Flexural Strength	D 790	36.2 ksi.	250 Mpa
Izod Impact Strength, Notched	D 256	1.4 ft-lb/in	8.0 kJ/m <sup>2</sup>
Izod Impact Strength, Unnotched	D 256	5.0 ft-lb/in	16.0 kJ/m <sup>2</sup>
<b>Thermal</b>			
Vicat Softening Temp	D1525	NA	NA
Deflection Temperature@ 66psi	D 648	536° F	280° C
Deflection Temperature @ 264psi	D 648	510° F	266° C
Continues Use Temperature	UL 746	430° F	220° C
<b>Misc.</b>			
Specific Gravity	D 792	1.91	1.91
Water Absorption (24hr.)	D 570	0.02%	0.02%
Hardness, Rockwell M		110	110
Flammability	UL 94	V-0 / 5VA	V-0 / 5VA
Mold Shrinkage, flow, 125-180 mil	D 955	0.3 %	0.3 %
Mold Shrinkage, xflow, 125-180 mil	D 955	0.7 %	0.7 %

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.

