

Technical Data Sheet PPS 40GF

ProPolymers PPS 40GF is a 40 % fiberglass 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.

Mechanical	ASTM	English	Metric
Tensile Strength at Yield	D 638	26.0 ksi.	180 Mpa
Elongation at Fail	D 638	2.0%	2.0%
Elongation at Yield	D 638	NA	NA
Flexural Modulus	D 790	2,000 ksi.	13,800 Mpa
Flexural Strength	D 790	37.7 ksi.	260 Mpa
Izod Impact Strength, Notched	D 256	2.0 ft-lb/in	1.1 J/cm
Izod Impact Strength, Unnotched	D 256	11.0 ft-lb/in	5.9 J/cm
Thermal			
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
Misc.			
Specific Gravity	D 792	1.69	1.69
Water Absorption (24hr.)	D 570	0.02%	0.02%
Hardness, Rockwell M		100	100
Flammability	UL 94	V-0/ 5VA	V-0/ 5VA
Mold Shrinkage, flow, 125-180 mil	D 955	3 in/in E-3	3 cm/cm E-3
Mold Shrinkage, xflow, 125-180 mil	D 955	5 in/in E-3	5 cm/cm 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.

