

# Duron PPS 20GF

Polyphenylene Sulfide

ProPolymers Inc.

Message:

ProPolymers PPS 20GF is a 20% 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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Low smoke		
	Workability, good		
	Good chemical resistance		
	Heat resistance, high		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	ASTM D955
Transverse flow	0.70	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	120	MPa	ASTM D638
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	11400	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Unnotched Izod Impact	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	280	°C	ASTM D648
1.8 MPa, not annealed	264	°C	ASTM D648
Continuous Use Temperature	221	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT