

# Duron PPS 70R

Polyphenylene Sulfide

ProPolymers Inc.

Message:

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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Mineral filler		
Features	Low smoke		
	Workability, good		
	Good chemical resistance		
	Heat resistance, high		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.91	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)	110		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	170	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	15500	MPa	ASTM D790
Flexural Strength	250	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Unnotched Izod Impact	270	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	266	°C	ASTM D648
Continuous Use Temperature	221	°C	UL 746
Flammability	Nominal Value		Test Method

Flame Rating

5VA

UL 94

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#### Recommended distributors for this material

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