

SUSTATRON PPS

Polyphenylene Sulfide
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Very high continuous service temperature
- High mechanical strength and rigidity
- High chemical resistance
- Typical fields of application
- Electrical and electronic industries
- Vehicle construction
- Aircraft construction

General Information			
Features	High Rigidity		
	High Strength		
Uses	Aircraft Applications		
	Automotive Applications		
	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	88		ISO 868
Ball Indentation Hardness	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4150	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	110	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-20.0 to 220	°C	
-- 2	< 260	°C	
Melting Temperature	285	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method

Flame Rating	UL 94
3.00 mm	V-0
6.00 mm	V-0
NOTE	
1.	Long Term
2.	Short Term

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