

Technical Data Sheet

Sustatron[®] PPS natural

PPS

Typical characteristics

- High continuous service temperature
- High hardness
- High rigidity
- Flame retardant
- Self-extinguishing
- Good machinability
- Electrically insulating
- Chemical resistant

Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry
- Semiconductor Industry
- Semiconductor Front-End applications
- Semiconductor CMP
- Semiconductor Back-End applications
- Semiconductor High and low temperature
- Semiconductor Dicing

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,35
Water absorption	DIN EN ISO 62	%	0,0
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	90
Elongation at break	DIN EN ISO 527	%	3
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4150
Shore hardness	DIN EN ISO 868	scale D	88
Thermal properties			
Melting temperature	ISO 11357-3	°C	285
Service temperature, long term	Average	°C	-20 ... 220
Service temperature, short term (max.)	Average	°C	260
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	110
Electrical properties			



	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	10^{13}
Surface resistivity	DIN EN 62631-3-2	Ω	10^{15}

