

TECATRON® IM PPS natural

Chemical Designation

PPS (Polyphenylsulfide)

Colour

natural

Density

1.25 g/cm³

Main features

very good chemical resistance
 good heat deflection temperature
 high creep resistance
 high strength
 high dimensional stability
 resistance against high energy radiation

Target Industries

chemical technology
 mechanical engineering
 precision engineering
 electrical engineering
 vacuum technology

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	5 mm/min	50	MPa	DIN EN ISO 527-2	
Modulus of elasticity (tensile test)	1 mm/min	2300	MPa	DIN EN ISO 527-2	
Modulus of elasticity (flexural test)	@ 73 °F	2300	MPa	DIN EN ISO 178	
Impact strength (Charpy)	@ 73 °F notched	12	kJ/m ²	DIN EN ISO 179-1	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Glass transition temperature		90	°C	DIN EN ISO 11357	
Melting temperature		280	°C	DIN EN ISO 11357	
Deflection temperature	@ 1.8 MPa	100	°C	ISO-R 75 Method A	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
volume resistivity		2.0*10 ¹⁵	Ω*m	DIN IEC 60093	1) (1) data from public sources
Dissipation factor	1MHz	2		DIN IEC 60250	2) (2) data from public sources

Resin specification:
 ASTM D 6358-06 PPS000B00000
 Shapes specification:
 NONE

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