



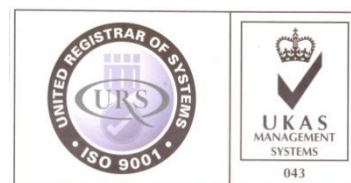
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**PSU (Polysulfone)**

**Material Specification  
 (Typical Properties)**

Physical

Property	Method	Units	Specification
Specific Gravity	---	g/cm <sup>3</sup>	1.24
Water Absorption	DIN EN ISO 62	%	0.05 / 0.1

Mechanical

Property	Method	Units	Specification
Modulus of elasticity (tensile test)	DIN EN ISO 527-2	MPa	3400
Tensile strength	DIN EN ISO 527-2	MPa	79
Tensile strength at yield	DIN EN ISO 527-2	MPa	79
Elongation at yield	DIN EN ISO 527-2	%	37
Elongation at break	DIN EN ISO 527-2	%	45
Flexural strength	DIN EN ISO 178	MPa	106
Modulus of elasticity (flexural test)	DIN EN ISO 178	MPa	3600
Compression strength	EN ISO 604	MPa	19 / 33
Compression modulus	EN ISO 604	MPa	2700
Impact strength (Charpy)	DIN EN ISO 179-1eU	kJ/m <sup>2</sup>	n.b.
Notched impact strength (Charpy)	DIN EN ISO 179-1eA	kJ/m <sup>2</sup>	15
Ball indentation hardness	ISO 2039-1	MPa	185

Electrical

Property	Method	Units	Specification
Specific surface resistance	DIN IEC 60093	Ω	10 <sup>14</sup>
Specific volume resistance	DIN IEC 60093	Ω*cm	10 <sup>14</sup>

Thermal

Property	Method	Units	Specification
Glass transition temperature	DIN 53765	°C	-60
Service temperature	---	°C	160-180
Melting temperature	DIN 53765	°C	n.a.
Thermal expansion (CLTE)		10 <sup>-5</sup> K <sup>-1</sup>	6
Specific heat	ISO 22007-4:2008	/(g*K)	1.2
<b>Thermal conductivity</b>	ISO 22007-4:2008	W/(K*m)	0.21

Disclaimer. These figures are typical values for the material and do not represent a product specification. Properties will vary depending on source of raw material, method of processing, physical form of product, direction of measurement etc.