

## DATASHEET

MATERIAL

PPS

### TECHNICAL DETAILS

Density	DIN 53 479	g/cm <sup>3</sup>	1.35	
Moisture absorption (23°C/50RH)	DIN EN ISO 62	%	0.01	
Water absorption to equilibrium		%		
Flammability acc. to UL standard 94			V0	
Tensile strength at yield	DIN EN ISO 527	MPa	75	
Elongation at yield		%		
Tensile strength at break		MPa		
Elongation at break	DIN EN ISO 527	%	4	
Modulus of elasticity in tension	DIN EN ISO 527	MPa	3700	
Modulus of elasticity after flexural test	DIN EN ISO 178	MPa	3600	
Hardness	DIN 53 456		190	
Impact strength 23°C	DIN EN ISO 179	KJ/m <sup>2</sup>	50	
Creep rupture strength after 1000 h with static load		MPa		
Time yield limit for 1% elongation after 1000h		MPa		
Wear p=0.05 N/mm <sup>2</sup> v=0.6 m/s on steel, hardened and ground		µm/km		
Crystalline melting point	DIN 53 765	°C	280	
Glass transition temperature	DIN 53 765	°C	90	
Heat distortion temperature	Method A	ISO-R75 (DIN 53 461)	°C	110
	Method B		°C	
Thermal conductivity (23°C)		W/(K·m)	0.25	
Max. Service temperature	Short term		°C	260
	Long term		°C	230
Specific heat (23°C)		J/g.K		
Coefficient of thermal expansion (23-55°C)	DIN 53 752	10 <sup>-5</sup> 1/K	5	
Specific volume resistance	DIN IEC 60093	Ω*cm	10 <sup>13</sup>	
Surface resistance	DIN IEC 60093	Ω	10 <sup>15</sup>	
Dielectric strength		kV/mm		