

Technical Data Sheet

SustaPEEK GLD 140 natural

PEEK

Typical characteristics

- High temperature resistance
- Good sliding properties
- Good dimensional stability

Typical industries

- Conveyor Technology & Automation
- Bakery and Confectionery
- Meat, Fish and Poultry Processing
- Beverage Industry
- Mechanical Engineering Industry
- Food Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,36
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	87
Elongation at break	DIN EN ISO 527	%	3
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3700
Notched impact strength	DIN EN ISO 179	kJ / m ²	3,5
Shore hardness	DIN EN ISO 868	scale D	86
Thermal properties			
Melting temperature	ISO 11357-3	°C	343
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	55
Service temperature, long term	Average	°C	-30 ... 250
Service temperature, short term (max.)	Average	°C	310
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	150
Electrical properties			
Surface resistivity	DIN EN 62631-3-2	Ω	10 ¹⁶

	Test method	Unit	Guideline value
Dielectric strength	IEC 60243	kV / mm	20

