

Plastic PET GLD 120

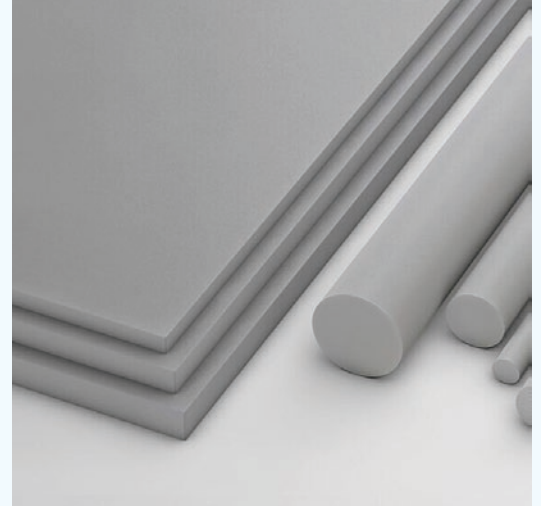
Material data sheet

PET GLD 120 is a modified engineering plastic based on PET with the addition of solid lubricant that improves the material's sliding properties. It features high mechanical strength, stiffness and good dimensional stability even under long-term load. The material has very low moisture absorption, good chemical resistance to oils, greases and many industrial fluids, while maintaining good mechanical properties even in humid environments.

The temperature resistance of the material is -20° to +115°C

Examples of products and applications:

Sliding bushings, guide rails, gears, bearing elements, conveyor components, construction and machine parts requiring low friction, good wear resistance and high dimensional stability.



Dimension (mm)	620 x 1000 / 620 x 2000 / 620 x 3000		
Colour	grey		
	Norm	Unit	Value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,41
Water absorption	DIN EN ISO 62	%	0,2
Flammability	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	77
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3100
Impact strength	DIN EN ISO 179	kJ / m ²	20
Shore hardness	DIN EN ISO 868	scale D	80
Thermal properties			
Melting temperature	ISO 11357-3	°C	248
Service temperature, long term	Average	°C	-20 / 115
Service temperature, short term (max.)	Average	°C	180
Electrical properties			
Volume resistivity	DIN EN 62631-3-2	Ω	10 ¹⁸
Dielectric constant	IEC 60250		3,4



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