Technical datasheet

PET-P low-friction (Polyethylene terephtalate)

Example of application
› conveyor technology; mechanical engineering; electrical engineering

Advantages	Disadvantages
› good sliding behaviour › high tensile strength › good dimensional stability	› not hydrolysis resistant › non-bondable › restricted range of semi-finished products

Basic information	Specification
Format	**round material:** 20 mm up to 210 mm available in 3 m length **sheets**: 10 up to 80 mm available in 3 m x 0.62 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.44	g/cm^3	ISO 1183
Moisture ingress	0.23	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	76	MPa	DIN EN ISO 527
Elongation at break	4	%	DIN EN ISO 527
E-Module	3.275	MPa	DIN EN ISO 527
Notch toughness	2.0	kJ/m^2	ISO 179
Rochwellhardness	160	MPa	DIN EN ISO 2039

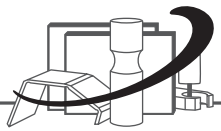
Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.28	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.65	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.3	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	115	°C	
Max. operating temperature, short-term	180	°C	
Min. operating temperature, long-term	-20	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10^{18}	Ω·cm	DIN IEC 60093
Outer surface coefficient	10^{16}	Ω	DIN IEC 60093
Puncture resistance	20	kV/mm	DIN EN 60243

Legend
n.sp. = not specified

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.
*Higher specification on request.

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