

Technical datasheet

PET-P (Polyethylenterephtalate)

Example of application

> mechanical engineering; track rollers; gear wheels

Advantages	Disadvantages
 high tensile strength high dimensional stability good anti-friction properties 	› not hydrolysis resistant

Basic information	Specification
Format	round material: 10 mm up to 210 mm available in 3 m length sheets: 8 mm up to 100 mm available in 3 m x 0.61 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.39	g/cm³	ISO 1183
Moisture ingress	0.5	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	n.sp.	MPa	DIN EN ISO 527
Elongation at break	15	%	DIN EN ISO 527
E-Module	3.445	МРа	DIN EN ISO 527
Notch toughness	2	kJ/m²	ISO 179
Rochwellhardness	170	МРа	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.29	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	0.8	K-1 · 10-4	DIN 53752
based on a fixed initial length	1.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	100	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	-20	°C	

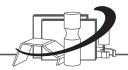
Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	1013	Ω·cm	DIN IEC 60093
Outer surface coefficient	1013	Ω	DIN IEC 60093
Puncture resistance	22	kV/mm	DIN EN 60243

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.

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technical plastics

^{*}Higher specification on request.