

## **Technical datasheet**

## PE 300 (Polyethylene/HD-PE)

## Example of application

› fittings; pump body; container construction

Advantages	Disadvantages	
<ul> <li>very good weldability</li> <li>high surface hardness</li> <li>dyed black: good UV-resistance</li> </ul>	bad anti-friction properties     low temperature	

Basic information	Specification
Format	round material: 10 mm up to 700 mm available in 2 m length Sheets: 1 mm up to 100 m available in 2 m x 1 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	0.96	g/cm³	ISO 1183
Moisture ingress	n.sp.	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	22	MPa	DIN EN ISO 527
Elongation at break	n.sp.	%	DIN EN ISO 527
E-Module	900	МРа	DIN EN ISO 527
Notch toughness	19	kJ/m²	ISO 179
Rochwellhardness	n.sp.	МРа	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.38	W/(m·K)	DIN 52612
Linear thermal expansion coefficient	1.8	K-1 · 10-4	DIN 53752
based on a fixed initial length	3.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	80	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	-50	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	1014	Ω	DIN IEC 60093
Puncture resistance	47	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

<sup>\*</sup>Higher specification on request.