



PE-HD 28x1000 mm black

Article No.	P1003207
Category	PE

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	0.96	g/cm ³	ISO 1183

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.01	%	ISO 62
Water Absorption to Saturation	0.01	%	ISO 62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	20	MPa	ISO 527
Modulus of elasticity (tensile)	1200	MPa	ISO 527
Breakdown Voltage	13	MPa	ISO 527
Break Elongation	200	%	ISO 527

Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	20	MPa	ISO527-2

Impact Resistance

Property	Value	Unit	Test standard
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Property	Value	Unit	Test standard
Notched impact strength (Charpy)	7.5	kJ/m ²	ISO 179/1eA
Impact Resistance (Charpy)	15	kJ/m ²	ISO 179/1eU

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	60	° Shore D	shore D
Ball pressure hardness	50	MPa	ISO 2039-1

Temperature Limits

Property	Value	Unit	Test standard
Melting point	135	°C	ISO 3146
Maximal operating temperature (short-term)	95	°C	UL746B
Maximum Operating Temperature	76	°C	
Minimum temperature	-51	°C	
Heat deflection temperature (HDT/A)	45	°C	ISO 75-2
Heat deflection temperature (HDT/B)	69	°C	ISO 75
Vicat softening temperature (VST/B/50)	79	°C	ISO 306

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.4	W/(m·K)	DIN 52612

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	2	10 ⁻⁴ /K	ISO 11359

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	45	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹²	Ω·cm	EN 61340-5-1
Dielectric Constant (1 MHz)	2.4	-	IEC 60250
Dielectric Constant (100 Hz)	2.3	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250

Static spread

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹³	Ω	EN 61340-5-1
Comparative Tracking Index (CTI)	600	V	IEC 60112