



PE-500 2000x1000x25 mm natural

Article No.	P1200352
Category	PE

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.3	g/cm ³	DIN EN ISO 1183-1

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.0	%	DIN EN ISO 62
Water Absorption to Saturation	0.0	%	DIN EN ISO 62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	24.2	MPa	DIN EN ISO 527
Modulus of elasticity (tensile)	1100	MPa	DIN EN ISO 527
Break Elongation	138.75	%	DIN EN ISO 527

Impact Resistance

Property	Value	Unit	Test standard
Notched impact strength (Charpy)	2	kJ/m ²	DIN EN ISO 179

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	65	° Shore D	DIN EN ISO 868

Property	Value	Unit	Test standard
Ball pressure hardness	50	MPa	ISO 2039-1

Temperature Limits

Property	Value	Unit	Test standard
Melting point	132.5	°C	ISO 11357-3
Maximal operating temperature (short-term)	80	°C	
Maximum Operating Temperature	54	°C	
Minimum temperature	-100	°C	
Vicat softening temperature (VST/B/50)	79	°C	DIN EN ISO 306

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.4	W/(m·K)	DIN 52612-1

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	2.4	10 ⁻⁴ /K	DIN 53752

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	40	kV/mm	IEC 60243
Volume Resistivity	10 ¹⁴	Ω	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	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 ⁸	Ω	DIN EN 62631-3-2
Comparative Tracking Index (CTI)	600	V	IEC 60112

Fire Classification

Property	Value	Unit	Test standard
Flammability Classification (UL 94)	3		UL 94

