



PE-1000 3000x1250x12 mm green

Article No.	P2200736
Category	PE

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	0.95	g/cm³	ISO 1183

Moisture Absorption

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

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	17	MPa	ISO 527
Modulus of elasticity (tensile)	800	MPa	DIN EN ISO 527-1/2
Breakdown Voltage	40	MPa	ISO 527
Break Elongation	200	%	ISO 527

Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	17	MPa	ISO 527-2

Impact Resistance

Property	Value	Unit	Test standard
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Mechanical Properties			
Modulus of Elasticity	2.1	GPa	ISO 178
Tensile Strength	55	MPa	ISO 527-1
Elongation at Break	10	%	ISO 527-1
Tensile Modulus	2.1	GPa	ISO 527-2
Compressive Strength	55	MPa	ISO 604
Compressive Modulus	2.1	GPa	ISO 604
Flexural Strength	55	MPa	ISO 178
Flexural Modulus	2.1	GPa	ISO 178
Impact Resistance (Charpy)	80	kJ/m²	DIN EN ISO 179-1/2

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	60	° Shore D	shore D
Ball pressure hardness	34	MPa	ISO 2039-1

Compressive Properties

Property	Value	Unit	Test standard
Creep Voltage at 1% Elongation	24	MPa	ISO 178

Temperature Limits

Property	Value	Unit	Test standard
Melting point	135	°C	ISO 3146
Maximal operating temperature (short-term)	100	°C	
Maximum Operating Temperature	64	°C	
Minimum temperature	-214	°C	UL746B
Heat deflection temperature (HDT/A)	42	°C	ISO 75
Heat deflection temperature (HDT/B)	65	°C	ISO 75
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

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	1	Ω	IEC 60093

Property	Value	Unit	Test standard
Dielectric Constant (1 MHz)	2.3	-	IEC 60250
Dielectric Constant (100 Hz)	2.55	-	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 ¹²	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

Fire Classification

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