



ABS 32x3000 mm natural

Article No.	P1000034
Category	ABS

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.05	g/cm ³	ISO 1183

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.2	%	ISO 62
Water Absorption to Saturation	1	%	ISO 62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	37	MPa	ISO 527-2
Modulus of elasticity (tensile)	2600	MPa	ISO 527-2
Breakdown Voltage	36.5	MPa	ISO 527-2
Break Elongation	5	%	ISO 527-2

Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	2500	MPa	ISO 178

Impact Resistance

Property	Value	Unit	Test standard
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Property	Value	Unit	Test standard
Notched impact strength (Charpy)	25	kJ/m ²	ISO 179/1eA
Impact Resistance (Charpy)	170	kJ/m ²	ISO 179/1eU

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	70	° Shore D	ISO 868
Rockwell hardness	80	R-scale	DIN EN ISO 2039-2
Ball pressure hardness	98	MPa	ISO 2039-1

Temperature Limits

Property	Value	Unit	Test standard
Melting point	235	°C	ISO 3146
Maximal operating temperature (short-term)	93	°C	UL746B
Maximum Operating Temperature	82.5	°C	
Heat deflection temperature (HDT/A)	80	°C	ISO 75-2
Heat deflection temperature (HDT/B)	100	°C	ISO 75-2
Vicat softening temperature (VST/B/50)	101	°C	ISO 306

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.2	W/(m·K)	DIN 52612

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	0.8	10 ⁻⁴ /K	DIN 11359

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	18	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹⁵	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	2.6	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250

Static spread

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹⁵	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112