



## PA12 2000x1000x6 mm natural

Article No.	P1000531
Category	PA

### Technical Properties

#### Density & Weight

Property	Value	Unit	Test standard
Density	1.04	g/cm <sup>3</sup>	

#### Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	3	%	ISO 62
Water Absorption to Saturation	3	%	ISO 62

#### Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	66	MPa	ISO 527
Modulus of elasticity (tensile)	1470	MPa	ISO 527
Breakdown Voltage	45	MPa	ISO 527
Break Elongation	50	%	ISO 527

#### Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	53	MPa	DIN EN ISO 527-2

#### Impact Resistance

Property	Value	Unit	Test standard
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Property	Value	Unit	Test standard
Notched impact strength (Charpy)	7	kJ/m <sup>2</sup>	DIN EN ISO 179-1

## Hardness

Property	Value	Unit	Test standard
Hardness Shore D	83	° Shore D	ISO 868
Ball pressure hardness	90	MPa	ISO 2039

## Temperature Limits

Property	Value	Unit	Test standard
Melting point	180	°C	DIN EN ISO 11357
Maximal operating temperature (short-term)	133	°C	UL746B
Maximum Operating Temperature	110	°C	
Heat deflection temperature (HDT/A)	115	°C	ISO 75
Heat deflection temperature (HDT/B)	135	°C	ISO 75
Vicat softening temperature (VST/B/50)	50	°C	ISO 306

## Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	0.9	10 <sup>-4</sup> /K	ISO 11359

## Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	34	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>11</sup>	Ω	IEC 60093
Dielectric Constant (1 MHz)	1	-	IEC 60250
Dielectric loss factor (1 MHz)	1	-	IEC 60250

## Static spread

Property	Value	Unit	Test standard
Surface Resistivity	~10 <sup>13</sup>	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

## Fire Classification

Property	Value	Unit	Test standard
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Property	Value	Unit	Test standard
Flammability Classification (UL 94)	60695		UL 94