



## PVC U 3000x1500x1,5 mm transparent

Article No.	P2202276
Category	PVC

### Technical Properties

#### Density & Weight

Property	Value	Unit	Test standard
Density	1.53	g/cm <sup>3</sup>	ASTM D792

#### Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.5	%	ASTM D570
Water Absorption to Saturation	0.5	%	ASTM D570

#### Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	48.8	MPa	ASTM D638
Modulus of elasticity (tensile)	2669	MPa	ASTM D638
Breakdown Voltage	40	MPa	ISO 527
Break Elongation	14	%	ISO 527

#### Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	73.1	MPa	ASTM D790

#### Impact Resistance

Property	Value	Unit	Test standard
Notched impact strength (Charpy)	4	kJ/m <sup>2</sup>	ISO 179
Impact Resistance (Charpy)	550	kJ/m <sup>2</sup>	DIN EN ISO 8256

#### Hardness

Property	Value	Unit	Test standard
Hardness Shore D	85	° Shore D	ASTM D2240
Ball pressure hardness	100	MPa	ISO 2039

### Temperature Limits

Property	Value	Unit	Test standard
Melting point	189.2	°C	ASTM D3418
Maximal operating temperature (short-term)	93.3	°C	UL 746B
Maximum Operating Temperature	60	°C	
Minimum temperature	-15	°C	UL 746B
Heat deflection temperature (HDT/A)	106.7	°C	ASTM D648
Vicat softening temperature (VST/B/50)	75	°C	ISO 306

### Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.14	W/(m·K)	ISO 22007-4

### Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	1.03	10 <sup>-4</sup> /K	ASTM D696

### Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	40	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>15</sup>	Ω·cm	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	3.1	-	IEC 60250
Dielectric Constant (100 Hz)	3.2	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250

### Static spread

Property	Value	Unit	Test standard
Surface Resistivity	10 <sup>13</sup>	Ω	DIN EN 62631-3-2
Comparative Tracking Index (CTI)	600	V	IEC 60112

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