PVC U 2000x1000x5 mm white

Article No.	P2201960
Category	PVC

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.53	g/cm³	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/m²	ISO 179
Impact Resistance (Charpy)	550	kJ/m²	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^{-4}/K	ASTM D696

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	40	kV/mm	IEC 60243-1
Volume Resistivity	10^{15}	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^{13}	Ω	DIN EN 62631-3-2
Comparative Tracking Index (CTI)	600	V	IEC 60112