



## PEI 25,4x2440 mm amber

Article No.	P1003403
Category	PEI

### Technical Properties

#### Density & Weight

Property	Value	Unit	Test standard
Density	1.27	g/cm <sup>3</sup>	ISO 1183

#### Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.8	%	ISO 62
Water Absorption to Saturation	0.8	%	ISO 62

#### Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	108.3	MPa	ISO 527
Modulus of elasticity (tensile)	3333.3	MPa	ISO 527
Breakdown Voltage	85	MPa	ISO 527
Break Elongation	36.7	%	ISO 527

#### Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	158.3	MPa	ISO 178

#### Impact Resistance

Property	Value	Unit	Test standard
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Property	Value	Unit	Test standard
Notched impact strength (Charpy)	4	kJ/m <sup>2</sup>	ISO 180
Impact Resistance (Charpy)	115	kJ/m <sup>2</sup>	ISO 179

### Hardness

Property	Value	Unit	Test standard
Hardness Shore D	87	° Shore D	ISO 868
Ball pressure hardness	220	MPa	ISO 2039

### Temperature Limits

Property	Value	Unit	Test standard
Melting point	217	°C	ISO 3146
Maximal operating temperature (short-term)	170	°C	UL746B
Heat deflection temperature (HDT/A)	190	°C	ISO 75
Heat deflection temperature (HDT/B)	200	°C	ISO 75
Vicat softening temperature (VST/B/50)	211	°C	ISO 306

### Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.24	W/(m·K)	ISO 22007-4

### Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	0.56	10 <sup>-4</sup> /K	ISO 11359

### Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	33	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>13</sup>	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	2.9	-	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	IEC 60093

Property	Value	Unit	Test standard
Comparative Tracking Index (CTI)	125	V	IEC 60112