

### Technical Data Sheet

# Polystone® E natural extruded

PE-LD

#### Typical characteristics

- Easy processing
- High flexibility
- High elongation at break
- Good impact strength

#### Typical industries

- Construction de machines et d'installations
- Healthcare
- Technique d'emboutissage

	Test method	Unit	Guideline value
<b>General properties</b>			
Densité	DIN EN ISO 1183-1	g / cm <sup>3</sup>	0,92
Water absorption	DIN EN ISO 62	%	0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
<b>Mechanical properties</b>			
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>200
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	>60
Shore hardness	DIN EN ISO 868	scale D	>40
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	105 ... 115
Thermal conductivity	DIN 52612-1	W / (m * K)	0,35
Thermal capacity	DIN 52612	kJ / (kg * K)	2,10
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	150 ... 230
Service temperature, long term	Average	°C	-50 ... 60
Service temperature, short term (max.)	Average	°C	90
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,0006
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>14</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	>10 <sup>14</sup>
Comparative tracking index	IEC 60112		600

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	Test method	Unit	Guideline value
Dielectric strength	IEC 60243	kV / mm	>40

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.



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