Technical Data Sheet

Polystone® E natural extruded

Typical characteristics

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

Typical industries

- Mechanical Engineering Industry
- Healthcare
- Vacuum Forming

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	0,92
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
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^2	>60
Shore hardness	DIN EN ISO 868	scale D	>40
Thermal properties			
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^{-6} / K	150 ... 230
Service temperature, long term	Average	°C	-50 ... 60
Service temperature, short term (max.)	Average	°C	90
Electrical properties			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,0006
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{14}$
Surface resistivity	DIN EN 62631-3-2		$>10^{14}$
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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