

# Technical data sheet

## Polystone® Play-Tec®

### Product characteristics

- Physiologically safe
- UV-stabilized & colorfast
- Versatile & allows for a variety of design ideas

### Typical field of application

- Toy & leisure equipment (indoor or outdoor)
- Playground equipment
- Educational toys for schools

Physical Properties	tested method	unit	value
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	0.97
Water Absorption	DIN EN ISO 62	%	<0.05
Flammability (thickness 3mm / 6 mm)	UL 94		HB
Flammability	Din 4102		B2
Mechanical Properties	tested method	unit	value
Yield stress	DIN EN ISO 527	N/mm <sup>2</sup>	30
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1,300
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m <sup>2</sup>	6
Shore hardness	DIN EN ISO 868	Scale D	65
Thermal Properties	tested method	unit	value
Melting temperature	ISO 11357-3	°C	135
Thermal conductivity	DIN 52612-1	W / (m * K)	0.40
Thermal capacity	DIN 52612-1	kJ / (kg * K)	1.90
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	150 - 230
Service temperature, long term	Average	°C	-10 ... 80
Service temperature, short term (max)	Average	°C	100
Heat deflection temperature	DIN EN ISO 306, Vicat B	°C	67
Electrical Properties	tested method	unit	value
Dielectric constant	IEC 60250	-	2.3
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250	-	0.0004
Volume resistivity	IEC 60093	Ω *cm	>10 <sup>14</sup>
Surface resistivity	IEC 60093	Ω	>10 <sup>14</sup>
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV/mm	45

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