

POLYSTONE® Play-Tec

Thermoplastic

Röchling Engineering Plastics SE & Co. KG

Message:

Product characteristics

Physiologically safe

Typical field of application

Toy and leisure equipment

General Information			
Uses	Sporting Goods		
	Toys		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.050	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1200	MPa	ISO 527-2
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature			
-- 1	-10.0 to 80.0	°C	
-- 2	< 100	°C	
Melting Temperature	135	°C	ISO 11357-3
CLTE - Flow	1.5E-4 to 2.3E-4	cm/cm/°C	DIN 53752
Specific Heat	1900	J/kg/°C	DIN 52612
Thermal Conductivity	0.40	W/m/K	DIN 52612
Heat Deflection Temperature - Vicat B	67	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+14	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093
Electric Strength	45	kV/mm	IEC 60243-1
Dielectric Constant	2.40		IEC 60250
Dissipation Factor (1 MHz)	4.0E-4		IEC 60250
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		
NOTE			
1.	Long Term		
2.	Short Term		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

