

Product: POLYSTONE G-NATURAL HD, extr.

12. April 2011 16:01:39

R50295

Properties, general	Data	Unit	Testmethod
Specific gravity	0,95	g/cm ³	ISO 1183
Molecular weight	> 250.000	g/mol	
Melt Flow Rate (MFR 190/5)	0,4- 0,6	g/10 min	ISO 1133
Coefficient of sliding friction	0,15		
Moulding compound	PE,EAN,45T006	---	DIN ISO 1872-1
Sheet classification acc. standard	TG3		EN ISO 14632
Water absorption	< 0,01%	%	
Properties, mechanical	Data	Unit	Testmethod
Tensile stress at yield	23	N/mm ²	ISO 527-1
Elongation at yield stress	10	%	ISO 527-1
Elongation at break	> 50	%	ISO 527-1
Modulus of elasticity in tension	800	N/mm ²	ISO 527-1
Notched Impact strength	12	mJ/mm ²	ISO 179
Shore hardness D	63	---	ISO 868
Properties, thermal	Data	Unit	Testmethod
Fire Behaviour	HB	---	UL 94
Crystalline grain melting range	135	°C	DSC
Thermal conductivity	0,43 (*)	W/mK	DIN 52612
Coefficient of linear expansion between 20°C and 100°C	1,5-2,3*10 ⁻⁴ (*)	1/K	DIN 53752
Temperature range (short-term)	-50....100 (*)	°C	
Temperature range	-50....80 (*)	°C	
Fire Behaviour	B2		DRUCK- UND MEDIENABHÄNGIG DIN 4102
Properties, electrical	Data	Unit	Testmethod
Insulation resistance	> 10 ¹⁴	Ohm x cm	DIN VDE 0303
Surface resistance	> 10 ¹⁴	Ohm	DIN VDE 0303
Track resistance	CTI 600	Stufe/Staue/Degré	IEC 60112
Electric strength, 1mm	> 30	kV/mm	IEC 60243
Electrical coefficient at 2*10 ⁶ Hz	2,5(*)		DIN VDE 0303-4
Dielectric loss factor at 10 ⁶ Hz	6*10 ⁻⁴ (*)		DIN VDE 0303-4
Arc resistance	L4 (*)	Stufe/degree/degré	DIN VDE 0303

Remark:

The data mentioned in this brochure are average values ascertained by current statistical returns and tests. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

*) literature values

**) Depends on pressure and media