

Osstyrol[®] PS-PRINT

HP-PM revision: 01/12

Description

Printing optimized sheets made of high impact polystyrene between 0,3 to 1,0 mm thickness.

Product information of uncoloured products

Product information of uncoloured products	Test method	Unit	Value
Mechanical properties			
Yield stress	ISO 527	MPa	20
Tensile strain at yield	ISO 527	%	1.4
Tensile strain at break	ISO 527	%	25
Tensile modulus	ISO 527	MPa	1600
Flexural strength	ISO 178	MPa	
Charpy impact strength 23 °C / - 30 °C	ISO 179/1eU	kJ/m ²	NB/120
Charpy notched impact strength 23 °C / -30 °C	ISO 179/eA	kJ/m ²	10.0/7.0
Izod-notched impact strength 23 °C / -30 °C	ISO 180/1A	kJ/m ²	
Ball indentation hardness	ISO 2039-1	MPa	
Thermal properties			
Vicat softening point VST/B/50	ISO 306	°C	87
Vicat softening point VST/A/120	ISO 306	°C	
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C	
Deflection temperature 0.45 Mpa (HDT B)	ISO 75-2	°C	
Electrical properties			
Relative permittivity at 100Hz / 1MHz	IEC 60250		
Dissipation factor at 100 Hz / 1MHz	IEC 60250	Ohm cm	
Surface resistivity	IEC 60093	Ohm	
Volume resistivity	IEC 60093	Ohm cm	
Electric strength K20/P50	IEC 60243-1	kV/mm	
Optical properties			
Surface gloss	DIN 67530	%	on demand, depends on colour and surface
Flammability			
Flammability UL at thickness d=1.6 mm	UL 94	Class	
Flammability UL at thickness d=3.2 mm	UL 94	Class	
Testing of electrical insulating material, method FH	IEC 60707	Level	
Testing of electrical insulating material, method BH	IEC 60707	Level	
Other properties			
Density at 23 °C	ISO 1183	g/cm ³	1,04
Water absorption, method A	ISO 62	%	< 0.10
Moisture absorption (Equilibrium)		%	< 0.10

Particularities

PS-PRINT is used for printing and varnishing due to its special surface structure. On demand we apply a pre-treatment using corona discharge on PS-PRINT. The main-application-fields are stickers for characterisation or flowers, for valuecards or advertising articles.

Note

The information submitted in this publication is based on our current knowledge and experience. Tested are uncoloured products. In view of many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of the suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.