

Osstyrol® PS

HP-PM revision: 01/12

Description

Sheets and foils made of high impact polystyrene (HIPS).

Product information

of uncoloured products	Test method	Unit	Value
Mechanical properties			
Tensile stress at yield Strain at yield Tensile stress at break Young's modulus Charpy-impact strength 23°C / -30°C Charpy-impact strength (notched) 23°C Ball indention hardness	ISO 527 ISO 527 ISO 527 ISO 527 ISO 179/1eU ISO 179/1eA ISO 2039-1	MPa % MPa MPa kJ/m² kJ/m² N/mm²	20 - 26 1,4 - 1,8 22 - 29 1600 - 1800 10 - 12 around 80
Thermal properties			
Vicat-softening temperature VST/B/50	ISO 306	°C	87 - 92
Electrical properties			
Dielectric constant at 100Hz / 1MHz Volume resistivity Surface resistivity Dielectric strength	IEC 250 IEC 93 IEC 93 IEC 243/1	Ohm cm Ohm kV/mm	2,5 > 10 ¹⁶ > 10 ¹³ 65
Optical properties			
Surface gloss	DIN 67530	%	on demand, depends on colour and surface
Flammability			
UL94 rating at 1.6 mm thickness UL94 rating at 3.2 mm thickness	UL 94 UL 94	class class	usual HB, if needed please contact
Other properties			
Density at 23 °C Water absorption, method A Moisture absorption (Equillibrium)	ISO 1183 ISO 62	g/cm³ % %	1,04 < 0,10 < 0,10

Particularities

Osstyrol PS is the most used standard product in the product-mix of Hagedorn-Plastirol. It is used in sheets or foils for thermoforming, printing or flat machining. Applications are displays, barrel sections, advertising articles, goods for househould or leisure-time. Osstyrol PS is available in nearly every colour and many surfaces. It is possible to bring a protective film on the sheets. If you have higher requirements e.g. for the mechanical properties, please contact our sales agency.

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.