

Osstyrol® PS-SUN

HP-PM revision: 01/12

Description

Sheets or foils made of weather resistant polystyrene with high impact strength.

Product information

of uncoloured products	Test method	Unit	Value
Mechanical properties			
Yield stress Tensile strain at yield Tensile strain at break Tensile modulus Flexural strength Charpy impact strength 23°C Charpy notched impact strength 23°C Izod notched impact strength 23°C Ball indention hardness H358/30	ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 179/1eU ISO 179/1eA ISO 180/1A ISO 2039-1	MPa % % MPa MPa kJ/m² kJ/m² MPa	28 1,8 21 1900 38 NB 18.0
Thermal properties			
Vicat softening point VST/B/50 Vicat softening point VST/A/120 Deflection temperature 1.8 Mpa (HDT A) Deflection temperature 0.45 Mpa (HDT B)	ISO 306 ISO 306 ISO 75-2 ISO 75-2	ზ ზ ზ	83 74
Electrical properties			
Relative permittivity at 100Hz / 1MHz Dissipation factor at 100 Hz / 1MHz Volume resistivity Comparative tracking index CTI, A Electric strength K20/P50	IEC 60250 IEC 60250 IEC 60093 IEC 60112 IEC 60243-1	Ohm cm Ohm kV/mm	
Optical properties			
Flammability			
Flammability UL at thickness d=1.6 mm Testing of electrical insulating material, method FH Testing of electrical insulating material, method BH Testing of car industry's material (d>1mm)	UL 94 IEC 60707 IEC 60707 FMVSS 302	Class Level Level	нв
Other properties			
Density at 23 °C Water absorption, method A Moisture absorption, at standard conditioning atmosphere	ISO 1183 DIN 53495/1	g/cm³ % %	1,01-1,02

Particularities

PS-SUN has less UV-speed compare to ordinary ABS or high impact polystyrene with additive UV-stabilisation due to a particular EPDM rubber component with aligned UV-stabilizer-system and a higher oxidation resistance. PS-SUN is qualified for the use in toys according to EN 71.

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.