Osstyrol[®] PS-STAT



HP-PM revision: 01/12

Description

Sheets or foils made of hight impact polystyrene with internal antistatic agent.

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 / -40 °C Charpy notched impact strength 23 °C / -40 °C Izod notched impact strength 23 °C Ball indention hardness H358/30	ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 179/2D ISO 179/2C ISO 180/1A ISO 2039-1	MPa % MPa MPa kJ/m ² kJ/m ² kJ/m ² MPa	20 1,4 25 1600 NB/120 10.0/7.0
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	င်္ဂ င် င်	87
Electrical properties			
Relative permittivity at 100Hz / 1MHz Dissipation factor at 100 Hz / 1MHz Surface resistivity Volume resistivity Electric strength K20/P50	IEC 60250 IEC 60250 IEC 61340 IEC 61340 IEC 60243-1	Ohm cm Ohm Ohm cm 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 materials (d>1mm)	UL 94 IEC 60707 IEC 60707 FMVSS 302	Class Level Level	НВ
Other properties			
Density at 23 ℃ Water absorption, method A Moisture absorption, at standard conditioning atmosphere	ISO 1183 DIN 53495/1	g/cm³ % %	1,04 < 0.10 < 0.10

Particularities

PS-STAT has an internal antistatic agent. 1 to 2 days after the sheet- respectively foilproduction the agent migrates on the surface. The compound of migration and relative humidity forms a very thin water-film which flows electrostatic chargings. In due to this the relative humidity is an important factor. Information: The conditions of the measurement of the electrical resistance have to be at 50 % relative humidity and 23 ℃.

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.

Hagedorn-Plastirol Deutschland GmbH a company of Hagedorn group