

Osstyrol[®] PS-DISS

HP-PM revision: 01/12

Description

Sheets or foils made of permanent dissipative masterbatch on a polystyrene base due to DIN 61340 for the application field.

Product information of uncoloured products

	Test method	Unit	Value
Mechanical properties			
Tensile strength	ISO 527	MPa	25
Tensile strain at yield	ISO 527	%	3
Tensile strain at break	ISO 527	%	100
Tensile modulus	ISO 527	MPa	1700
Flexural strength	ISO 178	MPa	
Izod impact strength 23°C (d=4 mm)	ISO 180/1A	J/m	NB
Charpynotched impact strength 23°C	ISO 179/2C	kJ/m ²	
Izod notched impact strength 23°C	ISO 180/1A	J/m	60
Shore D hardness	ISO 868		65
Thermal properties			
Vicat softening point VST/B/50	ISO 306	°C	
Vicat softening point VST/A/50	ISO 306	°C	95
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C	
Deflection temperature 0.45 Mpa (HDT B)	ISO 75-2	°C	82
Electrical properties			
Relative permittivity at 100Hz / 1MHz	IEC 60250		
Dissipation factor at 100 Hz / 1MHz	IEC 60250	Ohm cm	
Surface resistivity	IEC 61340	Ohm	10 ⁸ - 10 ¹¹
Decay rate	IEC 61340	s	<2
Electric strength K20/P50	IEC 60243-1	kV/mm	
Optical properties			
Flammability			
Flammability UL at thickness d=1.6 mm	UL 94	Class	
Testing of electrical insulating material, method FH	IEC 60707	Level	
Testing of electrical insulating material, method BH	IEC 60707	Level	
Testing of car industry's materials (d>1mm)	FMVSS 302		
Other properties			
Density at 23 °C	ISO 1183	g/cm ³	1,07
Water absorption, at standard conditioning atmosphere, method A	DIN 53495/1	%	
Moisture absorption, at standard conditioning atmosphere		%	

Particularities

PS-DISS is especially deep-drawn used as trails for electronic and electromechanic components which have to be ESD-saved permanently. The customised coextrusion affords the economic use during keeping the dissipative surface conductivity.

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.