Hagedorn Plastirol Deutschland GmbH

Osstyrol® PS/GLANZ

HP-PM revision: 01/12

Description

Sheets or foils made of high impact polystyrene with coextruded standard polystyrene top-layer.

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 / - 40°C	ISO 179/2D	kJ/m²	9
Charpy notched impact strength 23°C / -40°C	ISO 179/2C	kJ/m²	10.0/7.0
Izod notched impact strength 23°C	ISO 180/1A	kJ/m²	
Ball indention hardness H358/30	ISO 2039-1	MPa	150
Thermal properties			
Vicat softening point VST/B/50	ISO 306	°C	85
Vicat softening point VST/A/120	ISO 306	°C	
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C	75
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 61340	Ohm	
Volume resistivity	IEC 61340	Ohm cm	
Electric strength K20/P50	IEC 60243-1	kV/mm	
Optical properties			
Surface gloss	DIN 67350	%	50-100
Flammability			
Flammability UL at thickness d=1.6 mm	UL 94	Class	HB
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			
Dnesity at 23 °C	ISO 1183	g/cm³	1,03-1,05
Water absorption, method A	DIN 53495/1	%	< 0.10
Moisture absorption, at standard conditioning atmosphere		%	< 0.10

Particularities

PS/GLANZ is used where a high gloss, brilliant surface is needed. E. g. the of displays or of the interior of commercial autos and caravans. The gloss film can be transparent or coloured. The thickness of the gloss film is usually about 50 to 300 my having regard to the total thickness of the compound.

Note