

Osstyrol ABS-GLOSS

HP-PM revision: 08/25

Description

Sheets or foils produced from high impact, high gloss ABS.

Product information of uncoloured products

	Test method	Unit	Value
Mechanical properties			
Yield stress	ISO 527	MPa	38
Yield strain	ISO 527	%	2,5
Strain at break	ISO 527	%	> 9.0
Tensile modulus	ISO 527	MPa	1900
Flexural strength	ISO 178	MPa	56
Charpy-impact strength 23°C / -30°C	ISO 179/1eU	kJ/m²	210/140
Charpy-notched impact strength 23°C / -30°C	ISO 179/1eA	kJ/m²	23/13
Izod-notched impact strength 23°C / -30°C	ISO 180/1A	kJ/m²	25/14
Ball indentation hardness	ISO 2039-1	MPa	around 74
Thermal properties			
Vicat-softening point VST/B/50	ISO 306	°C	90
Vicat-softening point VST/A/120	ISO 306	°C	
Deflection temperature 1.8 Mpa (HDT A)	ISO 75	°C	94
Deflection temperature 0.45 Mpa (HDT B)	ISO 75	°C	100
Electrical properties			
Dielectric constant at 100Hz / 1MHz	IEC 60250		2,9-3,1/2,8-2,9
Dissipation factor at 100 Hz / 1MHz	IEC 60250	10 Exp. -4	50-54/82-90
Volume resistivity	IEC 60093	Ohm x m	10 ¹³
CTI, Solution A	IEC 60112		600
Dielectric strength K20/P50	IEC 60243-1	kV/mm	35-40
Optical properties			
Surface gloss	DIN 67530	%	50-100 depends on colour and surface
Flammability			
UL94 rating at 1.6 mm thickness	UL 94	class	HB
Other properties			
Density at 23 °C	ISO 1183	g/cm³	1,03-1,05

Particularities

The sheets and foils from the type ABS-GLOSS with a high gloss surface and good impact strength are used for the production of ambitious thermoforming parts in construction of cars and commercial vehicles, in electrical and electronics as well as for articles for leisure, household and office. ABS-GLOSS is the ideal material where excellent surface properties, colourfastness and brilliance are needed.

Shelf life: We recommend to thermoform the material within 3 months after production because the material is hygroscopic.

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.