

Osstyrol ABS-HH

HP-PM revision: 08/25

Description

Sheets or foils produced from high impact ABS with increased heat resistance (high heat).

Product information of uncoloured products

	Test method	Unit	Value
Mechanical properties			
Tensile yield strength 50 mm/min	ISO 527	MPa	43
Tensile elongation at yield 50 mm/min	ISO 527	%	2,7
Strain at break	ISO 527	%	
Tensile modulus 1 mm/min	ISO 527	MPa	2140
Flexural strength 2 mm/min	ISO 178	MPa	65
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 / 12
Ball indentation hardness	ISO 2039	MPa	90
Thermal properties			
Vicat softening temperature VST/B/50	ISO 306	°C	102
Vicat-softening temperature VST/A/120	ISO 306	°C	
Heat deflection temperature 1.8 Mpa, annealed	ISO 75-1	°C	101
Electrical properties			
Dielectric constant at 100Hz / 1MHz	IEC 60250		
Dissipation factor at 100 Hz / 1MHz	IEC 60250	10 Exp. -4	
Volume resistivity	IEC 60093	Ohm x m	
CTI, Solution A	IEC 60112		
Dielectric strength K20/P50	IEC 60243-1	kV/mm	
Optical properties			
Surface gloss	DIN 67530	%	depends on colour and surface
Flammability			
UL94 rating at 1.6 mm thickness	UL 94	class	HB
Horizontal burning speed, 2 mm thickness for uncoloured products	3795	mm/min	55
Other properties			
Density at 23 °C	ISO 1183	g/cm³	1,05

Particularities

ABS-HH is high impact resistant and has a good thermal stability. ABS-HH is particularly suitable for applications which demand a high softening range and thus a higher usual operation temperature. ABS-HH has normally a medium-gloss surface. 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.