

Osstyrol[®] ABS-MATT

HP-PM revision: 01/12

Description

Plastic sheets or foils made from low gloss ABS.

Product information of uncoloured products

Test method	Unit	Value	
Mechanical properties			
yield stress	ISO 527	MPa	26
yield strain	ISO 527	%	3,2
strain at break	ISO 527	%	15
Tensile Modulus	ISO 527	MPa	1450
Flexural Strength	ISO 178	MPa	40
Charpy-impact strength 23°C / -30°C	ISO 179/1eU	kJ/m ²	120/70
Charpy-notched impact strength 23°C / -30°C	ISO 179/eA	kJ/m ²	9.0/8.0
Izod-notched impact strength 23°C / -30°C	ISO 180/1A	kJ/m ²	8.0/7.0
Ball indentation hardness	ISO 2039-1	MPa	65
Thermal properties			
Vicat-softening point VST/B/50	ISO 306	°C	98
Vicat-softening point VST/A/120	ISO 306	°C	
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C	94
Deflection temperature 0.45 Mpa (HDT B)	ISO 75-2	°C	100
Electrical properties			
Dielectric constant at 100Hz / 1MHz	IEC 60250		
Dissipation factor at 100 Hz / 1MHz	IEC 60250	Ohm cm	
Surface resistivity	IEC 60093	Ohm	
Volume resistivity	IEC 60093	Ohm m	
Dielectric strength K20/P50	IEC 60243-1	kV/mm	
Optical properties			
Surface gloss	DIN 67530	%	5 - 35 depends on colour and surface
Flammability			
UL94 rating at 1.6 mm thickness	UL 94	class	
Other properties			
Density at 23 °C	ISO 1183	g/cm ³	1,05
Water absorption, method A	ISO 62	%	
Moisture absorption (23°C/50% r.h.)	-	%	

Particularities

ABS-MATT is used mainly as a mono or coextruded sheet where a low gloss appearance on the surface is required. It is especially manufactured for use in the leisure and office equipment fields but also used in the passenger and commercial vehicle market.

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.