

Osstyrol[®] ASA-MATT

HP-PM revision: 01/12

Description

Plastic sheets or foils made of styrene-acrylonitrile-copolymer being impact-resistant modified with acrylester rubber in matt accomplishment.

Product information of uncoloured products

	Test method	Unit	Value
Mechanical properties			
Tensile stress at yield	ISO 527	MPa	47
Elongation at yield	ISO 527	%	3,3
Nominal elongation at break	ISO 527	%	12
Tensile modulus	ISO 527	MPa	2.200
Flexural strength	ISO 178	MPa	65
Charpy impact strength 23°C / -30°C	ISO 179/1eU	kJ/m ²	270/150
Charpy-notched impact strength 23°C / -30°C	ISO 179/1eA	kJ/m ²	30.0/3.0
Izod-notched impact strength 23°C	ASTM D 256	J/m	285
Ball indentation hardness	ISO 2039-1	MPa	70
Thermal properties			
Vicat-softening point VST/B50	ISO 306	°C	92
Vicat-softening point VST/A50	ISO 306	°C	104
Deflection temperature 1.80 MPa (HDT A)	ISO 75-2	°C	96
Deflection temperature 0.45 MPa (HDT B)	ISO 75-2	°C	101
Electrical properties			
Relative permittivity at 100Hz / 1MHz	IEC 60250	-	3,8 / 3,4
Dissipation factor at 100 Hz / 1MHz	IEC 60250	10 Exp. -4	90 / 340
Volume resistivity	IEC 60093	Ohm m	10 ¹²
Comparative tracking index CTI, A	IEC 60112	-	600
Electric strength	IEC 60243-1	kV/mm	35
Optical properties			
Surface gloss	DIN 67530	%	depends on colour and surface
Flammability			
Flammability UL at thickness = 1,6 mm electrical engineering, test FH	UL 94	Class	HB
electrical engineering, test BH	IEC 60707	Level	HB 40
Automotive (d>1mm)	IEC 60707	Level	HB-20 mm/min plus
	FMVSS 302	-	
Other properties			
Density at 23 °C	ISO 1183	g/cm ³	1,07
Water absorption, method A	DIN 53 495/1	%	0,45
Water absorption, saturation (23°C/50%rel.)	-	%	0,35
Recommended part marking	ISO 11469	-	>ASA<

Particularities

ASA-MATT is a matt product with high toughness and rigidity, with good dimensional stability. ASA-MATT also has excellent weather resistance, is anti-aging, and resistant to yellowing. ASA-MATT has very good thermoforming properties and applications range from surfboards to caddy-cars, boat bodies and parts for motorbikes, impact protection profiles and roofs for Caravans etc.

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.