

Osstyrol[®] ASA+PC

HP-PM revision: 01/12

Description

Sheets or foils made of ASA+PC-blend with high deflection temperature.

Product information of uncoloured products

	Test method	Unit	Value
Mechanical properties			
Yield stress	ISO 527	MPa	53
Tensile strain at yield	ISO 527	%	4.9
Tensile strain at break	ISO 527	%	> 50
Tensile modulus	ISO 527	MPa	2300
Flexural strength	ISO 178	MPa	78
Charpy impact strength 23°C / -30°C	ISO 179/1eU	kJ/m ²	NB/NB
Charpy notched impact strength 23°C / -30°C	ISO 179/1eA	kJ/m ²	60/20
Izod notched impact strength 23°C	ASTM D 256	J/m	600
Ball indentation hardness H 358/30	ISO 2039-1	MPa	95
Thermal properties			
Vicat softening point VST/B/50	ISO 306	°C	120
Vicat softening point VST/A/50	ISO 306	°C	136
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C	106
Deflection temperature 0.45 Mpa (HDT B)	ISO 75-2	°C	125
Electrical properties			
Relative permittivity at 100Hz / 1MHz	IEC 60250		3.4/3.2
Dissipation factor at 100 Hz / 1MHz	IEC 60250	Ohm cm	60/150
Surface resistivity	IEC 60093	Ohm	10 ¹³
Volume resistivity	IEC 60093	Ohm cm	10 ¹²
Electric strength K20/P50	IEC 60243-1	kV/mm	38
Optical properties			
Surface gloss	DIN 67530	%	50 to 100
Flammability			
Flammability UL at thickness d=1.6 mm	UL 94	Class	HB
Testing of electrical insulating material, method FH	IEC 60707	Level	FH3-25mm/min
Testing of electrical insulating material, method BH	IEC 60707	Level	BH3-15mm/min
Testing of car industry's materials (d>1mm)	FMVSS 302		Plus
Other properties			
Density at 23 °C	ISO 1183	g/cm ³	1,15
Water absorption, 24h at 23°C	DIN 53495/1	%	0.30
Moisture absorption, at standard conditioning atmosphere		%	0.25

Particularities

ASA+PC sheets and foils have a wide temperature interval, a high stiffness and an excellent strength. For years they have been used successfully e. g. in the automotive industry, electro-powered industry as well as the building- and sanitary trade.

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.