

# Osstyrol<sup>®</sup> ABS+PC

HP-PM revision: 01/12

## Description

Plastic sheets or foils made of blend of ABS and polycarbonate (PC) with high impact strength and high temperature of deflection and exceptional impact strength even at low temperatures especially for indoor use with good thermoforming properties.

## Product information of uncoloured products

	Test method	Unit	Value
<b>Mechanical properties</b>			
Yield stress	ISO 527	MPa	55
Tensile strain at yield	ISO 527	%	5
Tensile stress at break	ISO 527	MPa	50
Tensile strain at break	based on ISO 527	%	> 60
Tensile modulus	ISO 527	MPa	2300
Flexural strength	ISO 178	MPa	83
Charpy impact strength 23 °C / -30 °C	ISO 179/1eU	kJ/m <sup>2</sup>	NB / NB
Charpy notched impact strength 23 °C / -30 °C	ISO 180/1U	kJ/m <sup>2</sup>	35 / 15
Izod notched impact strength 23 °C / -30 °C	ISO 180/1A	kJ/m <sup>2</sup>	70 / 50
Ball indentation hardness	DIN 53 459	MPa	100
<b>Thermal properties</b>			
Vicat-softening point 10N - 50 K/h	ISO 306	°C	
Vicat-softening point 50N - 120 K/h	ISO 306	°C	140
Deflection temperature 1.82 MPa (HDT A)	ISO 75	°C	108
Deflection temperature 0.45 MPa (HDT B)	ISO 75	°C	128
<b>Electrical properties</b>			
Relative permittivity at 100Hz / 1MHz	IEC 60250	-	
Dissipation factor at 100 Hz / 1MHz	IEC 60250	10 Exp. -4	
Surface resistivity	IEC 60093	Ohm	
Comparative tracking index CTI, A	IEC 60112	Stufe	
Electric strength	IEC 60243-1	kV/mm	
<b>Optical properties</b>			
Surface gloss	DIN 67530	%	depends on colour and surface
<b>Flammability</b>			
Flammability UL at thickness = 1,6 mm	UL 94	Class	HB*
<b>Other properties</b>			
Density at 23 °C	ISO 1183	g/cm <sup>3</sup>	1,16
Water absorption	ISO 62	%	0,2 - 0,6
Recommended part marking	ISO 11469	-	>PC+ABS<

Legend:

NB = no break

\* = internal test

## Particularities

Plastic sheets or foils of ABS+PC are because of their favourable combination of mechanical and thermal properties also at low temperatures particularly suitable for automotive applications including many interior and exterior parts. ABS+PC is also used for articles of household, leisure time and sport. If your project requires special fitments regarding UV-stability or flammability please contact us. Due to the enclosed PC in ABS+PC the surface properties are little restless than reinforced ABS, but can be thermoformed perfectly.

## 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.