

Osstyrol® ABS+PC-SE

HP-PM revision: 01/12

Description

Plastic sheets or foils made of flame-retardant, halogen-free blend of ABS and polycarbonate (PC) with high impact strength and high temperature of deflection especially for indoor use with good thermoforming properties.

Product information

of uncoloured products	Test method	Unit	Value
Mechanical properties			
Yield stress Tensile strain at yield Tensile stress at break Tensile strain at break Tensile modulus Flexural strength Charpy-impact strength 23 ℃ / -30 ℃ Izod impact strength 23 ℃ / -30 ℃ Izod notched impact strength 23 ℃ / -30 ℃ Ball indention hardness	ISO 527 ISO 527 ISO 527 based on ISO 527 ISO 527 ISO 178 ISO 179/1eU ISO 180/1U ISO 180/1A ISO 2039-1	MPa % MPa % MPa MPa kJ/m² kJ/m² kJ/m²	65 5 50 > 50 2600 NB / NB 40 / 10
Thermal properties			
Vicat-softening point 50N - 50 K/h Vicat-softening point 50N - 120 K/h Deflection temperature 1.80 MPa (HDT A) Deflection temperature 0.45 MPa (HDT B)	ISO 306 ISO 306 ISO 75 ISO 75	ე ი ი ი	115 95 110
Electrical properties			
Relative permittivity at 100Hz / 1MHz Dissipation factor at 100 Hz / 1MHz Surface resistivity Comparative tracking index CTI, A Electric strength	IEC 60250 IEC 60250 IEC 60093 IEC 60112 IEC 60243-1	- 10 Exp4 Ohm Stufe kV/mm	3,2 / 3,1 37 / 75 > 1E14 350 30
Optical properties			
Surface gloss	DIN 67530	%	depends on colour and surface
Flammability			
Flammability UL at thickness = 1,5 mm Flammability UL at thickness = 2,0 mm Flammability UL at thickness = 3,0 mm	UL 94 UL 94 UL 94	Class Class Class	V-0 5VB 5VA
Other properties			
Density at 23 °C Water absorption Recommended part marking	ISO 1183 ISO 62 ISO 11469	g/cm³ % -	1,18 0,2 - 0,5 >PC+ABS-FR<

Legend: NB = no break

Particularities

Due to the favourable combination between mechanical and thermal properties the sheet and foil of ABS+PC-SE are suited for applications especially in the domain of transport, building and electricity. The halogen-free flame-retardant (to DIN/VDE 0472, 815) allows the use for interior of buses, rail vehicles and boats also in public buildings and the electrical sector, for example as conductor rail covers. ABS+PC-SE has passed several international tests on fire-protection e.g. the "German Railway Test" or the "Epiradiateur cabin test". Due to the enclosed PC in ABS+PC-SE 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.