

Osstyrol[®] ABS-SE

HP-PM revision: 03/04

Description

Sheets and Foils produced from a flame-retardant grade of ABS with good mechanical and heat resistance properties. ABS-SE is primarily designed for indoor use without special UV-resistance.

Product information of uncoloured products

Product information of uncoloured products	Test method	Unit	Value
Mechanical properties			
Tensile strength	ISO 527	Mpa	39
Elongation at break	ISO 527	%	10
Flexural strength	ISO 178	Mpa	54
Flexural modulus	ISO 179	Mpa	1.700
Charpy-notched impact strength 23°C	ISO 179/1eU	kJ/m ²	20
Izod-notched impact strength 23°C	ISO 180/1A	kJ/m ²	19
Ball indentation hardness	ISO 2039-1	Mpa	74
Thermal properties			
Vicat-softening point VST/B/50	ISO 306	°C	79
Deflection temperature 1.8 Mpa (HDT A)	ISO 75	°C	91
Electrical properties			
Dielectric constant at 100Hz / 1MHz	IEC 250	Ohm cm kV/mm	
Volume resistivity	IEC 93		
Dielectric strength K20/P50	IEC 243/1		
Optical properties			
Surface gloss	DIN 67530	%	50 - 100
Flammability			
DIN 5510 Teil 2 bei 4,0 mm	DIN 54837	class	S2, ST2
UL-94 at 2,12 mm thickness	UL	class	V-0, 5VB
UL-94 at 2,54 mm thickness	UL	class	5VA
Other properties			
Density at 23 °C	ISO 1183	g/cm ³	1,17
Water absorption, method A	ISO 62	%	
Moisture absorption (23°C/50% r.h.)	-	%	

Particularities

The used ABS meets UL 94 V-0 (2,12 mm) and UL 94 5VA (2,54 mm) rating. Please be aware that your application has to be tested in your chosen colour and in your minimum thickness after thermoforming if you want to sign your product with the UL-Label or other certificates. At 4 mm ABS-SE was tested for use in railway / railroad cars (DIN 5510 Part 2, Test-Nr. 2003-1503 Siemens Axiva, certified with Ident.Nr. 32/0463/00 by Eisenbahn-Bundesamt (EBA)).

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.