

# Osstyrol ABS-REG

HP-PM revision: 08/25

## Description

Anthracite-coloured sheets or foils produced from recycled ABS-material

Product information	Test method	Unit	Value
<b>Mechanical properties</b>			
Yield stress	ISO 527	MPa	< 26
Tensile strain at yield	ISO 527	%	< 2,5
Tensile strain at break	ISO 527	%	< 9
Tensile modulus	ISO 527	MPa	< 1480
Flexural strength	ISO 178	MPa	< 40
Charpy impact strength 23°C / - 30°C	ISO 179/1eU	kJ/m <sup>2</sup>	< 48
Charpy notched impact strength 23°C / -30°C	ISO 179/eA	kJ/m <sup>2</sup>	< 9/8
Izod notched impact strength 23°C / -30°C	ISO 180/1A	J/m	< 8/7
Ball indentation hardness H358/30	ISO 2039-1	MPa	
<b>Thermal properties</b>			
Vicat softening point VST/B/50	ISO 306	°C	about 90
Vicat softening point VST/A/120	ISO 306	°C	
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C	about 88
Deflection temperature 0.45 Mpa (HDT B)	ISO 75-2	°C	
<b>Electric properties</b>			
Relative permittivity at 100Hz / 1MHz	IEC 60250		
Dissipation factor at 100 Hz / 1MHz	IEC 60250	Ohm cm	
Surface resistivity	IEC 60093	Ohm	
Volume resistivity	IEC 60093	Ohm cm	
Electric strength K20/P50	IEC 60243-1	kV/mm	
<b>Optical properties</b>			
Surface gloss	DIN 67530	%	20 - 100
<b>Flammability</b>			
Flammability UL at thickness d=1.6 mm	UL 94	Class	
Testing of electrical insulating material, method FH	IEC 60707	Level	
Testing of electrical insulating material, method BH	IEC 60707	Level	
<b>Sonstige Eigenschaften</b>			
Density at 23 °C	ISO 1183	g/cm <sup>3</sup>	about 1,05 - 1,15
Water absorption, method A	DIN 53495/1	%	
Moisture absorption, at standard conditioning atmosphere		%	

## Particularities

ABS-REG is used where the appearance and the mechanical properties are secondary. ABS-REG has to be carefully tested on application because especially the mechanical properties can fluctuate and they depend on the available raw materials.

Shelf life: We recommend to thermoform the material within 3 months after production because the material is hygroscopic.

## 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.