



Osstyrol ABS-REG/TPU

Description

Sheets or foils, produced from recycled ABS material with a proportion of TPU and coextruded TPU-layer.

Product information of uncoloured products

	Test method	Unit	TPU	ABS-REG
Mechanical properties				
Yield stress	ISO 527	MPa		< 26
Yield strain	ISO 527	%		< 2,5
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/m²		< 9/8
Charpy-notched impact strength 23°C / -30°C	ISO 179/1eA	kJ/m²		< 8/7
Izod-notched impact strength 23°C / -30°C	ISO 180/1A	kJ/m²		-
Hardness	ISO 868	Shore A - around:	85	-
Thermal properties				
Vicat-softening point VST/B/50	ISO 306	°C		92
Vicat-softening point VST/A/120	ISO 306	°C		102
Deflection temperature 1.8 Mpa (HDT A)	ISO 75-2	°C		94
Deflection temperature 0.45 Mpa (HDT B)	ISO 75-2	°C		100
Electrical properties				
Dielectric constant at 100Hz / 1MHz	IEC 60250			
Dissipation factor at 100 Hz / 1MHz	IEC 60250	Ohm cm		
Volume resistivity	IEC 60250	Ohm x m		
Dielectric strength K20/P50	IEC 60243-1	kV/mm		
Optical properties				
Surface gloss	DIN EN ISO 2813	GU		
Flammability				
UL94 rating at 1.6 mm thickness	UL 94	class	not tested	
Other properties				
Density at 23 °C	ISO 1183	g/cm³	1,2	1,05-1,15

Particularities

ABS-REG / TPU is used in particular for stressed and deep-drawn shapes that require a rubber-like medium on their outer and / or inner side for slip resistance or damping. ABS-REG / TPU is characterized by its strong slip resistance, very good adhesion and the very resilient ABS as the carrier material. ABS-REG / TPU is completely recyclable. It should be noted that the strength properties in particular are decisively influenced by the composite produced. Own tests are recommended.

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.