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## Technical datasheet for: ABS/PMMA

Sheets and foils, produced from ABS with PMMA toplayer. Different properties can be produced as to customers' requirements. Therefore, the below-mentioned values shall be considered as example figures only.

Product inform	Test method	Unit	PMMA (OS)	ABS (US)
Mechanical properties				
Yield stress Yield strain Strain at break Tensile modulus Flexural strength Charpy-impact strength 23 ℃ / -30 ℃ Charpy-notched impact strength 23 ℃ / -30 ℃ Izod-notched impact strength 23 ℃ / -30 ℃ Ball indention hardness	ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 179/1eU ISO 179/1eA ISO 180/1A ISO 2039-1	MPa % MPa MPa kJ/m² kJ/m² kJ/m² MPa	5 110 20 / - 2,0 / - 1,8 / - 180	38 2,5 > 9 1900 56 210 / 140 30 / 13 36 / 14 74
Thermal properties				
Vicat-softening point VST/B/50 Vicat-softening point VST/A/120 Deflection temperature 1.8 Mpa (HDT A) Deflection temperature 0.45 Mpa (HDT B)	ISO 306 ISO 306 ISO 75-2 ISO 75-2	ဝံ ဝံ ဝံ ဝံ	102 108 97 100	92 99 94 100
Electrical properties				
Dielectric constant at 100Hz / 1MHz Dissipation factor at 100 Hz / 1MHz Volume resistivity Dielectric strength K20/P50	IEC 60250 IEC 60250 IEC 60250 IEC 60243-1	Ohm cm Ohhm x m kV/mm		
Optical properties				
Surface gloss	DIN 67350	%	50-100	50-100
Flammability				
UL94 rating at 1.6 mm thickness Electrical insulation materials (method BH) Electrical insulation materials (method FH) Automotive materials (thickness d= 1 mm)	UL 94 IEC 60707 IEC 60707 FMVSS 302	class class class	НВ	НВ
Other properties				
Density at 23 ℃ Water absorption, method A Moisture absorption (Equillibrium)	ISO 1183 ISO 62 ISO 62	g/cm³ % %	1,18 0,30	1,03-1,05 0,21

## Particularities

ABS/PMMA offers a combination of superior properties being required for numerous applications in the fields of automobile manufacturing, engineering and building, lighting engineering, advertising and in sanitary and domestic sectors. Excellent transparency and brilliance, high weathering and ageing resistance as well as a very good surface hardness and abrasion resistance.

## 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.