

Lustran ABS M210TF

general applications for toy and food contact, meets European standart EN 71, part 3 and ASTM F 963 ,standard impact strength, easy flowing, high gloss

ISO Shortname: ISO 2580 ABS 0 MG 95-30-16-20

Property	Test Condition	Unit	Standard	Value
Rheological properties				
C Melt volume-flow rate	220 °C; 10 kg	cm ³ /(10 min)	ISO 1133	30
Molding shrinkage, parallel	150x105x3	%	acc. ISO 2577	0.6
Molding shrinkage, normal	150x105x3	%	acc. ISO 2577	0.6
Mechanical properties (23 °C/50 % r. h.)				
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	42
Tensile Strain at break	50 mm/min	%	acc. ISO 527-1,-2	>15
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2050
Flexural strength	2 mm/min	MPa	ISO 178	62
Flexural modulus	2 mm/min	MPa	ISO 178	2050
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	17
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	11
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	17
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	11
Ball indentation hardness		N/mm ²	ISO 2039-1	90
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	94
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	98
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	98
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	95
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.97
Burning rate (US-FMVSS)		mm/min	ISO 3795	63
Glow wire test (GWFI)		°C	IEC 60695-2-12	700
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	2.9
C Relative permittivity	1 MHz	-	IEC 60250	2.9
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	73
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	90
C Volume resistivity		Ohm·m	IEC 60093	1E+16
C Surface resistivity		Ohm	IEC 60093	1E+16
C Electric strength	1 mm	kV/mm	IEC 60243-1	35
Other properties (23 °C)				
Density		g/cm ³	ISO 1183	1.040
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	240
C Injection molding-Mold temperature		°C	ISO 294	80

INEOS ABS

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Property	Test Condition	Unit	Standard	Value
C Injection molding-Injection velocity		mm/s	ISO 294	240

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.