

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				
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.)				
Yield stress	50 mm/min	MPa	ISO 527-1,-2	42
Tensile Strain at break	50 mm/min	%	acc. ISO 527-1,-2	>15
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
Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	17
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				
Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	94
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
Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	95
Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1
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.)				
Relative permittivity	100 Hz	-	IEC 60250	2.9
Relative permittivity	1 MHz	-	IEC 60250	2.9
Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	73
Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	90
Volume resistivity		Ohm·m	IEC 60093	1E+16
Surface resistivity		Ohm	IEC 60093	1E+16
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				
Injection molding-Melt temperature		°C	ISO 294	240
Injection molding-Mold temperature		°C	ISO 294	80

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

Disclaimer

Disclaimer for developmental products

This is a developmental product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damages, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time. Our products are sold and our advisory service is given in accordance with the current version of our General Conditions of Sale and Delivery.

Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the colouring.

Test values styrenics

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