

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 |

Lustran ABS M210TF

| Property | Test Condition | Unit | Standard | Value |
|--------------------------------------|----------------|------|----------|-------|
| 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.

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

Unless specified to the contrary, the values given have been established on standardised 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. This is valid especially for CTI.

INEOS ABS (Deutschland) GmbH, D-50769 Köln

© INEOS ABS (Deutschland)