

Lustran ABS M406

very high impact strength, increased chemical and dynamic resistance

ISO Shortname: ISO 2580-1 -ABS 0, MG, 095-08-25-15

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Melt volume-flow rate	220 °C; 10 kg	cm ³ /(10 min)	ISO 1133	10
Molding shrinkage, parallel	150x105x3	%	acc. ISO 2577	0,6-0,9
Molding shrinkage, normal	150x105x3	%	acc. ISO 2577	0,6-0,9
Mechanical properties (23 °C/50 % r. h.)				
Yield stress	50 mm/min	MPa	ISO 527-1,-2	39
Tensile Stress at break	50 mm/min	MPa	ISO 527-1,-2	29
Tensile Strain at break	50 mm/min	%	acc. ISO 527-1,-2	> 15
Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	1800
Flexural strength	2 mm/min	MPa	ISO 178	55
Flexural modulus	2 mm/min	MPa	ISO 178	1800
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	29
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	18
Yield strain	50 mm/min	%	ISO 527-1,-2	2,6
Ball indentation hardness		N/mm ²	ISO 2039-1	74
Thermal properties				
Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	91
Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	95
Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	92
Burning behavior UL 94 (1.6 mm) [UL listed]	1.6 mm	Class	UL 94	HB
Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1,1
Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1,1
Glow wire test (GWFI)		°C	IEC 60695-2-12	650
Electrical properties (23 °C/50 % r. h.)				
Relative permittivity	100 Hz	-	IEC 60250	2,9
Relative permittivity	1 MHz	-	IEC 60250	2,8
Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	55
Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	90
Volume resistivity		Ohm·m	IEC 60093	1E15
Surface resistivity		Ohm	IEC 60093	1E15
Electric strength	1 mm	kV/mm	IEC 60243-1	33
Comparative tracking index CTI	Solution A	Rating	IEC 60112	600
Processing conditions for test specimens				
Injection molding-Melt temperature		°C	ISO 294	240
Injection molding-Mold temperature		°C	ISO 294	70
Injection molding-Injection velocity		mm/s	ISO 294	240

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Disclaimer

Disclaimer for sales products

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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.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

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