



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				
C 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.)				
C 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
C 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
C Yield strain	50 mm/min	%	ISO 527-1,-2	2,6
Ball indentation hardness		N/mm ²	ISO 2039-1	74
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	91
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	95
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	92
C Burning behavior UL 94 (1.6 mm) [UL listed]	1.6 mm	Class	UL 94	HB
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	1,1
C 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.)				
C Relative permittivity	100 Hz	-	IEC 60250	2,9
C Relative permittivity	1 MHz	-	IEC 60250	2,8
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	55
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	90
C Volume resistivity		Ohm·m	IEC 60093	1E15
C Surface resistivity		Ohm	IEC 60093	1E15
C Electric strength	1 mm	kV/mm	IEC 60243-1	33
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	600
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	240
C Injection molding-Mold temperature		°C	ISO 294	70
C Injection molding-Injection velocity		mm/s	ISO 294	240