



Lustran ABS 348

medical applications

ISO Shortname: ISO 2580-1 -ABS-0, MG, 095-15-09-25

Property	Test Condition	Unit	Standard	Value
Rheological properties				
C Molding shrinkage, normal	60x60x2; -	%	ISO 294-4	0.4 - 0.6
C Melt volume-flow rate	220 °C; 10 kg	cm ³ /(10 min)	ISO 1133	16
C Molding shrinkage, parallel	60x60x2; 300 bar	%	ISO 294-4	0.4 - 0.6
Mechanical properties (23 °C/50 % r. h.)				
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	52
Tensile Strain at break	50 mm/min	%	acc. ISO 527-1,-2	> 15
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2500
Flexural strength	2 mm/min	MPa	ISO 178	75
Flexural modulus	2 mm/min	MPa	ISO 178	2600
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	12
C Yield strain	50 mm/min	%	ISO 527-1,-2	> 2.0
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	70
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	11
Ball indentation hardness		N/mm ²	ISO 2039-1	115
Thermal properties				
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	97
C Burning behavior UL 94 (1.6 mm)	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	0.8
Electrical properties (23 °C/50 % r. h.)				
C Volume resistivity		Ohm-m	IEC 60093	1E13
C Surface resistivity		Ohm	IEC 60093	1E15
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

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.