

LATIOHM 92-03 PD09 F3

Semiconductive/dissipative product based on Thermoplastic Polyurethane (TPU). Potentially suitable for medical contact application. PFAS-free product.

The products mentioned herein are not suitable for applications in contact with foodstuffs or for potable water transportation, or for toy manufacturing.

Versions of product mentioned herein may support applications in the pharmaceutical, medical or dental sector. Nevertheless, manufactured parts have to be verified according to the specific directives.

PHYSICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Density	ISO 1183	1.33 g/cm ³
Linear shrinkage at moulding		
Longitudinal (2.0mm/60MPa)	ISO 294-4	0.65 ÷ 0.90 %
Transversal (2.0mm/60MPa)	ISO 294-4	0.65 ÷ 0.85 %
Dimensional stability	---	80
Moisture absorption		
saturation, in air	ISO 62-4	0.22 %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Hardness		
Shore A	ISO 7619-1	95 @ 1s
CHARPY impact strength		
Unnotched, at 23°C	ISO 179-1eU	NB kJ/m ²
Notched, at 23°C	ISO 179-1eA	NB kJ/m ²
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Tensile elongation		
At break (5 mm/min), 23°C	ISO 527	>50 %
Tensile strength		
At break (5 mm/min), 23°C	ISO 527	NB MPa
Elastic modulus		
Tensile (1 mm/min), 23°C	ISO 527	90 MPa
THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Coefficient of linear thermal expansion (CLTE)		
30°C to 100°C (longitudinal)	ISO 11359	150 × 10 ⁻⁶ K ⁻¹
30°C to 100°C (transversal)	ISO 11359	150 × 10 ⁻⁶ K ⁻¹
VICAT - Softening point		
50 N (heating rate 120°C/h)	ISO 306	50 °C
HDT - Heat Deflection Temperature		
0.45 MPa	ISO 75	55 °C
1.81 MPa	ISO 75	50 °C
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
Electrical resistivity		
surface, dry	ASTM D 257 / ASTM D4496	3E1 ohm