

## 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
<b>Density</b>	ISO 1183	<b>1.33</b> g/cm <sup>3</sup>
<b>Linear shrinkage at moulding</b>		
Longitudinal (0.078in/8,700psi)	ISO 294-4	<b>0.65 ÷ 0.90</b> %
Transversal (0.078in/8,700psi)	ISO 294-4	<b>0.65 ÷ 0.85</b> %
<b>Dimensional stability</b>	---	<b>80</b>
<b>Moisture absorption</b>		
saturation, in air	ISO 62-4	<b>0.22</b> %
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
<b>Hardness</b>		
Shore A	ISO 7619-1	<b>95 @ 1s</b>
<b>CHARPY impact strength</b>		
Unnotched, at 23°F	ISO 179-1eU	<b>NB</b> ft.lb/in <sup>2</sup>
Notched, at +23°F	ISO 179-1eA	<b>NB</b> ft.lb/in <sup>2</sup>
MECHANICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
<b>Tensile elongation</b>		
At break (0.196 in/min), 23°F	ISO 527	<b>&gt;50</b> %
<b>Tensile strength</b>		
At break (0.196 in/min), 23°F	ISO 527	<b>NB</b> psi
<b>Elastic modulus</b>		
Tensile (0.04 in/min), 23°F	ISO 527	<b>13</b> kpsi
THERMAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
<b>Coefficient of linear thermal expansion (CLTE)</b>		
30°F to 100°F (longitudinal)	ISO 11359	<b>150</b> × 10 <sup>-6</sup> K <sup>-1</sup>
30°F to 100°F (transversal)	ISO 11359	<b>150</b> × 10 <sup>-6</sup> K <sup>-1</sup>
<b>VICAT - Softening point</b>		
11 lb (heating rate 250°F/h)	ISO 306	<b>122</b> °F
<b>HDT - Heat Deflection Temperature</b>		
66 psi	ISO 75	<b>131</b> °F
264 psi	ISO 75	<b>122</b> °F
ELECTRICAL PROPERTIES	STANDARD	VALUE MEASURE UNITS
<b>Electrical resistivity</b>		
surface, dry	ASTM D 257 / ASTM D4496	<b>3E1</b> ohm