

## Typical Material Properties for Nylon 6,6

Property	Test Method	Units	At 50% RH
<b>Physical</b>			
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1 – 1.4
Water Absorption (24hr immersion)	ASTM D570	%	1.2 – 3.0
<b>Mechanical at 23°C</b>			
Tensile Strength	ASTM D638	MPa	60 – 90
Elongation at Rupture	ASTM D638	%	200 – 300
Flexural Modulus	ASTM D790	MPa	1000 - 1300
Izod Impact Strength (notched)	ASTM D256	J/m	50 - 250
<b>Thermal</b>			
Melting Point	ASTM D3418	°C	250 - 270
Heat Deflection Temperature	ASTM D648	°C	
At 0.45 MPa			200 – 230
At 1.80 MPa			60 – 90
<b>Electrical</b>			
CTI	UL 746A	V	>600
Volume Resistivity	ASTM D257	Ωcm	1x10 <sup>13</sup> – 1x10 <sup>15</sup>

The above information is given for guidance only and should not be used to establish final specification. We recommend therefore that samples be evaluated before items are specified.

**OPTIMAS SOLUTIONS LTD - COMPONENTS DIVISION**

Unit A, Acorn Office Park, Ling Road, Poole, Dorset BH12 4NZ

**E:** [sales@optimascomponents.com](mailto:sales@optimascomponents.com)

**T:** +44 (0) 1202 865222 **F:** +44 (0) 1202 865270