

**NX-01GY**

PA6

Next Polymers Ltd.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.0115</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0115</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength	<b>70 / 55</b>	MPa	ASTM D 638
Elongation at Break	<b>30 / 50</b>	%	ASTM D 638
Flexural Modulus	<b>2700 / 2100</b>	MPa	ASTM D 790
Flexural Strength	<b>105 / 90</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 120 /</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>49.1 / 78.5</b>	J/m	ASTM D 256
<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>0.8</b>	mm	-
DTUL @ 66 psi	<b>180</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>75</b>	°C	ASTM D 648
Melting Temperature	<b>222</b>	°C	ASTM D 3418
<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	<b>1E13 / -</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>* / 1E14</b>	Ohm	IEC 62631-3-2
Electric strength	<b>32 / -</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>600 / -</b>	-	IEC 60112
<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water Absorption, 24hr	<b>2.3</b>	%	ASTM D 570
Water Absorption, Equilibrium	<b>8.5</b>	%	ASTM D 570
Density	<b>1130</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Asia Pacific

**Applications**

Automotive