

**NST35-01NC**

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>0.0118</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0118</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>50 / 35</b>	MPa	ASTM D 638
Elongation at Break	<b>60 / 100</b>	%	ASTM D 638
Flexural Modulus	<b>1600 / 1300</b>	MPa	ASTM D 790
Flexural Strength	<b>70 / 45</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 110 /</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>N / N</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>120</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>50</b>	°C	ASTM D 648
Melting Temperature	<b>220</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
Electric strength	<b>27 / 20</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>1.85</b>	%	ASTM D 570
Water Absorption, Equilibrium	<b>8.4</b>	%	ASTM D 570
Density	<b>1080</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding

**Applications**

Sports Equipment

**Delivery form**

Natural Color

**Regional Availability**

Asia Pacific

**Special Characteristics**

High impact or impact modified