

NX-01ABK

PA6

Next Polymers Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--------------------------------------------|--------------|-------------------|----------------------|
| ASTM Data | | | |
| Mold Shrinkage, MD | 0.013 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.013 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ASTM Data | | | |
| Tensile Modulus | 3100 | MPa | ASTM D 638 |
| Tensile Strength | 80 | MPa | ASTM D 638 |
| Elongation at Break | 65 | % | ASTM D 638 |
| Flexural Modulus | 2900 | MPa | ASTM D 790 |
| Flexural Strength | 105 | MPa | ASTM D 790 |
| Rockwell Hardness | R 120 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 49.1 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ASTM Data | | | |
| UL 94 Flame rating | V-2 | - | UL 94 |
| Thickness tested | 0.8 | mm | - |
| DTUL @ 66 psi | 180 | °C | ASTM D 648 |
| DTUL @ 264 psi | 80 | °C | ASTM D 648 |
| Melting Temperature | 222 | °C | ASTM D 3418 |
| Electrical properties | | | |
| ISO Data | | | |
| Volume resistivity | 1E13 | Ohm*m | IEC 62631-3-1 |
| Surface resistivity | 1E15 | Ohm | IEC 62631-3-2 |
| Electric strength | 38 | kV/mm | IEC 60243-1 |
| Comparative tracking index | 600 | - | IEC 60112 |
| Other properties | | | |
| Water Absorption, 24hr | 2 | % | ASTM D 570 |
| Water Absorption, Equilibrium | 9.5 | % | ASTM D 570 |
| Density | 1140 | kg/m ³ | ASTM D 792 |

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Black

Regional Availability

Asia Pacific