

NST35-01BK

PA6

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0117	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0117	mm/mm	ASTM D 955
Mechanical properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Strength	50 / 35	MPa	ASTM D 638
Elongation at Break	50 / 100	%	ASTM D 638
Flexural Modulus	1600 / 1300	MPa	ASTM D 790
Flexural Strength	60 / 45	MPa	ASTM D 790
Rockwell Hardness	R 85 /	-	ASTM D 785
Izod Impact notched, 1/8 in	N / N	J/m	ASTM D 256
Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 66 psi	130	°C	ASTM D 648
DTUL @ 264 psi	55	°C	ASTM D 648
Melting Temperature	220	°C	ASTM D 3418
Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
Electric strength	27 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	1.8	%	ASTM D 570
Water Absorption, Equilibrium	8.5	%	ASTM D 570
Density	1070	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Applications

Encapsulation, Sports Equipment

Delivery form

Black

Regional Availability

Asia Pacific

Special Characteristics

High impact or impact modified