

NMS1-01 S.GY.

PA6-Z

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0085	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0085	mm/mm	ASTM D 955

Mechanical properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Modulus	2700 / 1900	MPa	ASTM D 638
Tensile Strength	75 / 55	MPa	ASTM D 638
Elongation at Break	25 / 40	%	ASTM D 638
Flexural Modulus	3400 / 2700	MPa	ASTM D 790
Flexural Strength	110 / 85	MPa	ASTM D 790
Rockwell Hardness	R 110 /	-	ASTM D 785
Izod Impact notched, 1/8 in	49.1 / 68.7	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	180	°C	ASTM D 648
DTUL @ 264 psi	95	°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
Surface resistivity	* / 1E14	Ohm	IEC 62631-3-2
Electric strength	24 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.6	%	ASTM D 570
Water Absorption, Equilibrium	7	%	ASTM D 570
Density	1150	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Regional Availability

Asia Pacific

Features

Tribologic Grade