

NM40-01BK

PA6-MX40

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0065	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0065	mm/mm	ASTM D 955
Mechanical properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Modulus	6400 / 3800	MPa	ASTM D 638
Tensile Strength	85 / 60	MPa	ASTM D 638
Elongation at Yield	4 / 15	%	ASTM D 638
Flexural Modulus	5200 / -	MPa	ASTM D 790
Flexural Strength	140 / 70	MPa	ASTM D 790
Rockwell Hardness	R 120 /	-	ASTM D 785
Izod Impact notched, 1/8 in	58.9 / -	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	190	°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	30 / -	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	-	IEC 60112
Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	1.5	%	ASTM D 570
Water Absorption, Equilibrium	5.7	%	ASTM D 570
Density	1490	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Delivery form

Black

Features

Low Warpage

Applications

Encapsulation

Regional Availability

Asia Pacific