

PG 50-01NC

PA66-GF50

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0082	mm/mm	ASTM D 955
Mechanical properties	dry / cond	Unit	Test Standard
ASTM Data			
Tensile Strength	240 / 175	MPa	ASTM D 638
Elongation at Break	3 / 4	%	ASTM D 638
Flexural Modulus	13800 / 10500	MPa	ASTM D 790
Flexural Strength	305 / 260	MPa	ASTM D 790
Rockwell Hardness	R 130 /	-	ASTM D 785
Izod Impact notched, 1/8 in	167 / 186	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	260	°C	ASTM D 648
DTUL @ 264 psi	255	°C	ASTM D 648
Melting Temperature	262	°C	ASTM D 3418
Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Volume resistivity	1E10 / -	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E9	Ohm	IEC 62631-3-2
Electric strength	35 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112
Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.65	%	ASTM D 570
Water Absorption, Equilibrium	4.25	%	ASTM D 570
Density	1570	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Features

Thermal Stability

Delivery form

Natural Color

Regional Availability

Asia Pacific