

PRL NY6-GP1

PA6

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.013	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	75.8	MPa	ASTM D 638
Tensile Strength at Break	75.8	MPa	ASTM D 638
Flexural Modulus	2758	MPa	ASTM D 790
Flexural Strength	106	MPa	ASTM D 790
Izod Impact notched, 1/8 in	53.4	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 66 psi	177	°C	ASTM D 648
DTUL @ 264 psi	65.6	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	29.1	kV/mm	ASTM D 149
Volume Resistivity	1E11	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1130	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	73.9 - 85	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	238 - 279	°C	-
Mold temperature	65.6 - 82.2	°C	-
Zone 1	221 - 246	°C	-
Zone 2	238 - 254	°C	-
Zone 3	243 - 260	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Additives

Lubricants

Applications

General Purpose

Regional Availability

North America