

PRL NY66-GP2

PA66

Polymer Resources, Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.015	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.018	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Charpy notched impact strength, +23°C	4.2	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.78	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	3378	MPa	ASTM D 638
Tensile Strength at Yield	89.6	MPa	ASTM D 638
Tensile Strength at Break	89.6	MPa	ASTM D 638
Elongation at Yield	4.5	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	3034	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Rockwell Hardness	R120	-	ASTM D 785
Izod Impact notched, 1/8 in	53.4	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	246	°C	ASTM D 648
DTUL @ 264 psi	102	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1140	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	277 - 293	°C	-
Mold temperature	65.6 - 93.3	°C	-
Zone 1	266 - 277	°C	-
Zone 2	271 - 282	°C	-
Zone 3	277 - 288	°C	-

Characteristics

Processing Injection Molding	Features Nucleated
Delivery form Pellets	Applications General Purpose
Additives Lubricants	Regional Availability North America