



Wednesday, August 30, 2023

PRL NY66-GP1

Polymer Resources Ltd. - Polyamide 66

Units

English ▼

Action	Legend (Open)
 	

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Additive	• Lubricant
Features	• General Purpose • Lubricated
RoHS Compliance	• RoHS Compliant
UL File Number	• E113219
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow	0.012 to 0.018	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	12000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	12000	psi	ASTM D638
Flexural Modulus (0.125 in)	450000	psi	ASTM D790
Flexural Strength (0.125 in)	17000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	445	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	190	°F	ASTM D648
RTI Elec			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-2		
0.12 in	V-2		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	165 to 185	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	510 to 530	°F
Middle Temperature	520 to 540	°F
Front Temperature	530 to 550	°F
Processing (Melt) Temp	530 to 560	°F
Mold Temperature	150 to 200	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

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