

PRL NY66-GP1

Polyamide 66
Polymer Resources Ltd.

Message:

PRL NY66-GP1 is a Polyamide 66 (Nylon 66) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Lubricated

General Information			
UL YellowCard	E113219-219231		
Additive	Lubricant		
Features	General Purpose		
	Lubricated		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.2 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	82.7	MPa	
Break, 3.18 mm	82.7	MPa	
Flexural Modulus (3.18 mm)	3100	MPa	ASTM D790
Flexural Strength (3.18 mm)	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	229	°C	
1.8 MPa, Unannealed, 3.18 mm	87.8	°C	
RTI Elec			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Imp			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	

RTI Str		UL 746
1.50 mm	65.0	°C
3.00 mm	65.0	°C
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	V-2	
3.00 mm	V-2	
Injection	Nominal Value	Unit
Drying Temperature	73.9 to 85.0	°C
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	266 to 277	°C
Middle Temperature	271 to 282	°C
Front Temperature	277 to 288	°C
Processing (Melt) Temp	277 to 293	°C
Mold Temperature	65.6 to 93.3	°C

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