

PRL NY6-GP1

Polyamide 6
Polymer Resources Ltd.

Message:

PRL NY6-GP1 is a Polyamide 6 (Nylon 6) 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	E113219-219229		
Additive	Lubricant		
Features	General Purpose		
	Lubricated		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.1 to 1.5	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	75.8	MPa	
Break, 3.18 mm	75.8	MPa	
Flexural Modulus (3.18 mm)	2760	MPa	ASTM D790
Flexural Strength (3.18 mm)	106	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Gardner Impact (3.18 mm)	36.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	177	°C	
1.8 MPa, Unannealed, 3.18 mm	65.6	°C	
RTI Elec			UL 746
0.800 mm	125	°C	
1.50 mm	125	°C	
3.00 mm	125	°C	

6.00 mm	125	°C	
RTI Imp			UL 746
1.50 mm	75.0	°C	
3.00 mm	75.0	°C	
6.00 mm	75.0	°C	
RTI Str			UL 746
1.50 mm	85.0	°C	
3.00 mm	85.0	°C	
6.00 mm	85.0	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms·cm	ASTM D257
Dielectric Strength (0.800 mm)	29	kV/mm	ASTM D149
Comparative Tracking Index (CTI) (0.800 mm)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		
3.00 mm	PLC 0		
6.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (0.800 mm)	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		
3.00 mm	PLC 2		
6.00 mm	PLC 2		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-2		
1.50 mm	V-2		
3.00 mm	V-2		
6.00 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	221 to 246	°C	
Middle Temperature	238 to 254	°C	
Front Temperature	243 to 260	°C	
Processing (Melt) Temp	238 to 279	°C	
Mold Temperature	65.6 to 82.2	°C	

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