PRL NY6-GP2-(color)H

Polyamide 6

Polymer Resources Ltd.

Message:

PRL NY6-GP2-(color)H 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
Heat Stabilizer
Nucleated

General Information			
Additive	Heat Stabilizer Nucleating Agent		
Features	General Purpose Heat Stabilized Non-Porous		
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/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80 to 1.2	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	89.6	MPa	
Break, 3.18 mm	89.6	MPa	
Flexural Modulus (3.18 mm)	3100	MPa	ASTM D790
Flexural Strength (3.18 mm)	108	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 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	191	°C	
1.8 MPa, Unannealed, 3.18 mm	73.9	°C	
RTI Elec			UL 746
0.800 mm	125	°C	
1.50 mm	125	°C	

3.00 mm	125	°C	
5.99 mm	125	°C	
RTI Imp			UL 746
0.800 mm	65.0	°C	
1.50 mm	75.0	°C	
3.00 mm	75.0	°C	
5.99 mm	75.0	°C	
RTI Str			UL 746
0.800 mm	65.0	°C	
1.50 mm	85.0	°C	
3.00 mm	85.0	°C	
5.99 mm	85.0	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (0.800 mm)	30	kV/mm	ASTM D149
Comparative Tracking Index (CTI) (0.800 mm)	PLC 0		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.800 mm	PLC 0		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
5.99 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (0.800 mm)	PLC 1		UL 746
Hot-wire Ignition (HWI)			UL 746
0.800 mm	PLC 4		
1.50 mm	PLC 4		
3.00 mm	PLC 3		
5.99 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	79.4 to 93.3	°C

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China