PRL NY6-IM1-(color)H

Polyamide 6

Polymer Resources Ltd.

Message:

PRL NY6-IM1-(color)H is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.
Characteristics include:
RoHS Compliant
Heat Stabilizer
Impact Modified
Lubricated

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
	Lubricant		
Features	Heat Stabilized		
	Impact Modified		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.6 to 2.0	%	ASTM D955

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	62.1	MPa	
Break, 3.18 mm	62.1	MPa	
Flexural Modulus (3.18 mm)	2070	MPa	ASTM D790
Flexural Strength (3.18 mm)	75.8	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	160	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	168	°C	
1.8 MPa, Unannealed, 3.18 mm	62.8	°C	

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 268	°C	
Mold Temperature	65.6 to 82.2	°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

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