

PRL NY6-IM1

Polyamide 6
Polymer Resources Ltd.

Message:

PRL NY6-IM1 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant
Impact Modified
Impact Resistant

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
	Medium Impact Resistance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	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

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Recommended distributors for this material

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