

PRL NY66-GP2

Polyamide 66
Polymer Resources Ltd.

Message:

PRL NY66-GP2 is a Polyamide 66 (Nylon 66) product. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant
Lubricated
Nucleated

General Information			
Additive	Lubricant		
	Nucleating Agent		
Features	General Purpose		
	Lubricated		
	Nucleated		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	1.2 to 1.8	%	
Across Flow : 3.18 mm	1.5 to 2.1	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (3.18 mm)	3380	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 3.18 mm	89.6	MPa	
Break, 3.18 mm	89.6	MPa	
Tensile Strain			ASTM D638
Yield, 3.18 mm	4.5	%	
Break, 3.18 mm	30	%	
Flexural Modulus (3.18 mm)	3030	MPa	ASTM D790
Flexural Strength (3.18 mm)	117	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	3.8	kJ/m²	
23°C	4.2	kJ/m²	
Notched Izod Impact			
23°C, 3.18 mm	53	J/m	ASTM D256
23°C	3.2	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	246	°C	
1.8 MPa, Unannealed, 3.18 mm	102	°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	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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