

PRL NY66-IM2

Polyamide 66

Polymer Resources Ltd.

Message:

PRL NY66-IM2 is a Polyamide 66 (Nylon 66) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

RoHS Compliant

Impact Modified

Impact Resistant

Lubricated

General Information			
UL YellowCard	E113219-219228		
Additive	Impact Modifier Lubricant		
Features	Impact Modified Lubricated Ultra High Impact Resistance		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.7 to 2.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	51.7	MPa	
Break, 3.18 mm	50.3	MPa	
Flexural Modulus (3.18 mm)	1690	MPa	ASTM D790
Flexural Strength (3.18 mm)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	850	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	213	°C	
1.8 MPa, Unannealed, 3.18 mm	68.3	°C	
RTI Elec			UL 746

1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Imp			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Str			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
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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