# PRL NY66-IM1-(color)H

### Polyamide 66

Polymer Resources Ltd.

#### Message:

PRL NY66-IM1-(color)H is a Polyamide 66 (Nylon 66) product. It can be processed by injection molding and is available in North America. Characteristics include:

**RoHS Compliant** 

Heat Stabilizer

Impact Modified

Lubricated

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)         14 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         Legal         MPa         ASTM D638           Vield, 3.18 mm         62.1         MPa         ASTM D638           Pieural Modulus (3.18 mm)         1930         MPa         ASTM D790           Breaxard Strength (3.18 mm)         1930         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Noticed Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D790           Impact         Nominal Value         Unit         Test Method           Noticed Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D648           Permal	General Information			
Features	Additive	Heat Stabilizer		
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)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         4.5 TM D638         STM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         VC         C           1.5 MPa, Unannealed, 3.18 mm         227         °C		Impact Modifier		
Impact Modified   Lubricated		Lubricant		
Impact Modified   Lubricated				
RoHS Compliance         RoHS Compliance           Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.09         g/cm²         ASTM D792           Molding Shrinkage - Flow (3.18 mm)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tessile Strength         4 to 2.0         MPa         ASTM D638           Yield, 3.18 mm         62.1         MPa         ASTM D638           Yield, 3.18 mm         60.0         MPa         ASTM D790           Flexural Modulus (3.18 mm)         93.0         MPa         ASTM D790           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         "C         ASTM D648           18 MPa, Unannealed, 3.18 mm         73.9         C	Features	Heat Stabilized		
RoHS Compliance           Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.09         g/cm³         ASTM D792           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D955         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         62.1         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         27         °C           0.45 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         7.39         °C           1.9 MPa, Unannealed, 3.18 mm         7.39 to 85.0         °C           Drying Temperature		Impact Modified		
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)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         Z         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         227         °C           1.8 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           1.9 cotton         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C		Lubricated		
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)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         Z         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         227         °C           1.8 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           1.9 cotton         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C				
Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.09         g/cm³         ASTM D792           Molding Shrinkage - Flow (3.18 mm)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         4STM D638         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa         ASTM D790           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         227         °C           1.8 MPa, Unannealed, 3.18 mm         227         °C           1.9 MPa, Unannealed, 3.18 mm         3.9         °C           1.9 MPa, Unannealed, 3.18 mm         3.9         °C           1.9 MPa, Unannealed, 3.18 mm         3.9         °C           1.9 MPa, Unannealed, 3.18				
Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.09         g/cm³         ASTM D792           Molding Shrinkage - Flow (3.18 mm)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         VC         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         73.9         *C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         *C           Drying Time         3.0 to 4.0         hr				
Specific Gravity         1.09         g/cm³         ASTM D792           Molding Shrinkage - Flow (3.18 mm)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength	Processing Method	Injection Molding		
Molding Shrinkage - Flow (3.18 mm)         1.4 to 2.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Teet Method           Tensile Strength         ASTM D638         Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa         ASTM D790           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           0.45 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C           Drying Time         3.0 to 4.0         hr	Physical	Nominal Value	Unit	Test Method
Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         V         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C           Drying Temperature         3.0 to 4.0         hr	Specific Gravity	1.09	g/cm³	ASTM D792
Tensile Strength         ASTM D638           Yield, 3.18 mm         62.1         MPa           Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C           Drying Temperature         73.9 to 85.0         °C           Drying Time         3.0 to 4.0         hr	Molding Shrinkage - Flow (3.18 mm)	1.4 to 2.0	%	ASTM D955
Yield, 3.18 mm       62.1       MPa         Break, 3.18 mm       60.0       MPa         Flexural Modulus (3.18 mm)       1930       MPa       ASTM D790         Flexural Strength (3.18 mm)       82.7       MPa       ASTM D790         Impact       Nominal Value       Unit       Test Method         Notched Izod Impact (23°C, 3.18 mm)       160       J/m       ASTM D256         Thermal       Nominal Value       Unit       Test Method         Deflection Temperature Under Load       "C       ASTM D648         0.45 MPa, Unannealed, 3.18 mm       73.9       "C         Injection       Nominal Value       Unit         Drying Temperature       73.9 to 85.0       "C         Drying Time       3.0 to 4.0       hr	Mechanical	Nominal Value	Unit	Test Method
Break, 3.18 mm         60.0         MPa           Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C           Drying Time         3.0 to 4.0         hr	Tensile Strength			ASTM D638
Flexural Modulus (3.18 mm)         1930         MPa         ASTM D790           Flexural Strength (3.18 mm)         82.7         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           0.45 MPa, Unannealed, 3.18 mm         227         °C           1.8 MPa, Unannealed, 3.18 mm         73.9         °C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         °C           Drying Time         3.0 to 4.0         hr	Yield, 3.18 mm	62.1	MPa	
Flexural Strength (3.18 mm) 82.7 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.18 mm) 160 J/m ASTM D256  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load CASTM D480  0.45 MPa, Unannealed, 3.18 mm 227 °C  1.8 MPa, Unannealed, 3.18 mm 73.9 °C  Injection Nominal Value Unit Unit CASTM D648  Drying Temperature 73.9 to 85.0 °C  Drying Time 3.0 to 4.0 hr	Break, 3.18 mm	60.0	MPa	
Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         160         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         "C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         227         "C           1.8 MPa, Unannealed, 3.18 mm         73.9         "C           Injection         Nominal Value         Unit           Drying Temperature         73.9 to 85.0         "C           Drying Time         3.0 to 4.0         hr	Flexural Modulus (3.18 mm)	1930	MPa	ASTM D790
Notched Izod Impact (23°C, 3.18 mm) 160 J/m ASTM D256  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load ASTM D648  0.45 MPa, Unannealed, 3.18 mm 227 °C  1.8 MPa, Unannealed, 3.18 mm 73.9 °C  Injection Nominal Value Unit  Drying Temperature 73.9 to 85.0 °C  Drying Time 3.0 to 4.0 hr	Flexural Strength (3.18 mm)	82.7	MPa	ASTM D790
ThermalNominal ValueUnitTest MethodDeflection Temperature Under LoadASTM D6480.45 MPa, Unannealed, 3.18 mm227°C1.8 MPa, Unannealed, 3.18 mm73.9°CInjectionNominal ValueUnitDrying Temperature73.9 to 85.0°CDrying Time3.0 to 4.0hr	Impact	Nominal Value	Unit	Test Method
Deflection Temperature Under Load  0.45 MPa, Unannealed, 3.18 mm  227  C  1.8 MPa, Unannealed, 3.18 mm  73.9  C  Injection  Nominal Value  Unit  Drying Temperature  73.9 to 85.0  C  Drying Time  3.0 to 4.0  hr	Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256
0.45 MPa, Unannealed, 3.18 mm227°C1.8 MPa, Unannealed, 3.18 mm73.9°CInjectionNominal ValueUnitDrying Temperature73.9 to 85.0°CDrying Time3.0 to 4.0hr	Thermal	Nominal Value	Unit	Test Method
1.8 MPa, Unannealed, 3.18 mm73.9°CInjectionNominal ValueUnitDrying Temperature73.9 to 85.0°CDrying Time3.0 to 4.0hr	Deflection Temperature Under Load			ASTM D648
InjectionNominal ValueUnitDrying Temperature73.9 to 85.0°CDrying Time3.0 to 4.0hr	0.45 MPa, Unannealed, 3.18 mm	227	°C	
Drying Temperature 73.9 to 85.0 °C Drying Time 3.0 to 4.0 hr	1.8 MPa, Unannealed, 3.18 mm	73.9	°C	
Drying Time 3.0 to 4.0 hr	Injection	Nominal Value	Unit	
	Drying Temperature	73.9 to 85.0	°C	
Drying Time, Maximum 8.0 hr	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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