## PRL PPX/NY-G10

Polyphenylene Ether + PS + Nylon Polymer Resources Ltd.

## Message:

PRL PPX/NY-G10 is a Polyphenylene Ether + PS + Nylon (PPE+PS+Nylon) product filled with 10% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: rohs compliant.

RoHS Compliance         RoHS Compliant           Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.18         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)         2.0 to 8.0         g/10 min         ASTM D238           Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D648           Deflection Temperature Under Load         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         C           Injection </th <th>General Information</th> <th></th> <th></th> <th></th>	General Information			
Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.18         g/cm²         ASTM D792           Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)         2.0 to 8.0         g/10 min         ASTM D1238           Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D790           Infermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         V         C           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Orying Time, Maximum         8.	Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.18         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)         2.0 to 8.0         g/10 min         ASTM D238           Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D648           Deflection Temperature Under Load         **C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         **C           1.8 MPa, Unannealed, 3.18 mm         216         **C           Drying Time         3.0 to 4.0         hr	RoHS Compliance	RoHS Compliant		
Physical         Nominal Value         Unit         Test Method           Specific Gravity         1.18         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)         2.0 to 8.0         g/10 min         ASTM D1238           Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         Joseph General MPa         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa           Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Drying Time         3.0 to 4.0         hr <tr< td=""><td>Forms</td><td>Pellets</td><td></td><td></td></tr<>	Forms	Pellets		
Specific Gravity         1.18         g/cm³         ASTM D792           Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)         2.0 to 8.0         g/10 min         ASTM D238           Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Unjigetion         Nominal Value         Unit           Drying Time         3.0 to 4.0         hr           Projing Time, Maximum         8.0         hr           Rear Temperature	Processing Method	Injection Molding		
Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)         2.0 to 8.0         g/10 min         ASTM D1238           Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Break, 3.18 mm         86.2         MPa         ASTM D790           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Unjtige Temperature         93.3 to 107         °C           Drying Time         3.0 to 4.0         hr           Rear Temperature         268 to 302         °C           Wildle Temperature         274 to 302         °C           Front Temperature         279 to 302         °C	Physical	Nominal Value	Unit	Test Method
Molding Shrinkage - Flow (3.18 mm)         0.50 to 1.0         %         ASTM D955           Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         "C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         "C           1.8 MPa, Unannealed, 3.18 mm         216         "C           Injection         Nominal Value         Unit           Drying Temperature         9.3 to 107         "C           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         "C           Widdle Temperature         274 to 302         "	Specific Gravity	1.18	g/cm³	ASTM D792
Mechanical         Nominal Value         Unit         Test Method           Tensile Strength         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         "C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         "C           1.8 MPa, Unannealed, 3.18 mm         216         "C           Injection         Nominal Value         Unit           Drying Temperature         9.3 to 107         "C           Drying Time         3.0 to 4.0         hr           Poying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         "C           Widdle Temperature         274 to 302         "C           Front Temperature         279	Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)	2.0 to 8.0	g/10 min	ASTM D1238
Tensile Strength         ASTM D638           Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notehed Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Injection         Nominal Value         Unit           Drying Temperature         93.3 to 107         °C           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         °C           Middle Temperature         274 to 302         °C           Front Temperature         279 to 302         °C	Molding Shrinkage - Flow (3.18 mm)	0.50 to 1.0	%	ASTM D955
Yield, 3.18 mm         86.2         MPa           Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Injection         Nominal Value         Unit           Drying Temperature         93.3 to 107         °C           Drying Time         3.0 to 4.0         hr           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         °C           Middle Temperature         274 to 302         °C           Front Temperature         279 to 302         °C	Mechanical	Nominal Value	Unit	Test Method
Break, 3.18 mm         86.2         MPa           Flexural Modulus (3.18 mm)         3520         MPa         ASTM D790           Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Injection         Nominal Value         Unit           Drying Temperature         93.3 to 107         °C           Drying Time         3.0 to 4.0         hr           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         °C           Middle Temperature         274 to 302         °C           Front Temperature         279 to 302         °C	Tensile Strength			ASTM D638
Flexural Modulus (3.18 mm) 3520 MPa ASTM D790  Flexural Strength (3.18 mm) 141 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.18 mm) 48 J/m ASTM D256  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load °C  1.8 MPa, Unannealed, 3.18 mm 204 °C  1.8 MPa, Unannealed, 3.18 mm 216 °C  Injection Nominal Value Unit  Drying Temperature 93.3 to 107 °C  Drying Time 3.0 to 4.0 hr  Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Yield, 3.18 mm	86.2	MPa	
Flexural Strength (3.18 mm)         141         MPa         ASTM D790           Impact         Nominal Value         Unit         Test Method           Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Injection         Nominal Value         Unit           Drying Temperature         93.3 to 107         °C           Drying Time         3.0 to 4.0         hr           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         °C           Middle Temperature         274 to 302         °C           Front Temperature         279 to 302         °C           Processing (Melt) Temp         279 to 302         °C	Break, 3.18 mm	86.2	MPa	
Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.18 mm) 48 J/m ASTM D256  Thermal Nominal Value Unit Test Method  Deflection Temperature Under Load °C  1.8 MPa, Unannealed, 3.18 mm 216 °C  Injection Nominal Value Unit  Drying Temperature 93.3 to 107 °C  Drying Time 3.0 to 4.0 hr  Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 279 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Flexural Modulus (3.18 mm)	3520	MPa	ASTM D790
Notched Izod Impact (23°C, 3.18 mm)         48         J/m         ASTM D256           Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         °C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         °C           1.8 MPa, Unannealed, 3.18 mm         216         °C           Injection         Nominal Value         Unit           Drying Temperature         93.3 to 107         °C           Drying Time         3.0 to 4.0         hr           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         °C           Middle Temperature         274 to 302         °C           Front Temperature         279 to 302         °C           Processing (Melt) Temp         279 to 302         °C	Flexural Strength (3.18 mm)	141	МРа	ASTM D790
Thermal         Nominal Value         Unit         Test Method           Deflection Temperature Under Load         "C         ASTM D648           0.45 MPa, Unannealed, 3.18 mm         204         "C           1.8 MPa, Unannealed, 3.18 mm         216         "C           Injection         Nominal Value         Unit           Drying Temperature         93.3 to 107         "C           Drying Time         3.0 to 4.0         hr           Drying Time, Maximum         8.0         hr           Rear Temperature         268 to 302         "C           Middle Temperature         274 to 302         "C           Front Temperature         279 to 302         "C           Processing (Melt) Temp         279 to 302         "C	Impact	Nominal Value	Unit	Test Method
Deflection Temperature Under Load         0.45 MPa, Unannealed, 3.18 mm       204       °C         1.8 MPa, Unannealed, 3.18 mm       216       °C         Injection       Nominal Value       Unit         Drying Temperature       93.3 to 107       °C         Drying Time       3.0 to 4.0       hr         Drying Time, Maximum       8.0       hr         Rear Temperature       268 to 302       °C         Middle Temperature       274 to 302       °C         Front Temperature       279 to 302       °C         Processing (Melt) Temp       279 to 302       °C	Notched Izod Impact (23°C, 3.18 mm)	48	J/m	ASTM D256
0.45 MPa, Unannealed, 3.18 mm 204 °C  1.8 MPa, Unannealed, 3.18 mm 216 °C  Injection Nominal Value Unit  Drying Temperature 93.3 to 107 °C  Drying Time 3.0 to 4.0 hr  Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 274 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Thermal	Nominal Value	Unit	Test Method
1.8 MPa, Unannealed, 3.18 mm  216  C Injection  Nominal Value  Unit  Drying Temperature  93.3 to 107  °C  Drying Time  3.0 to 4.0  hr  Drying Time, Maximum  8.0  hr  Rear Temperature  268 to 302  °C  Middle Temperature  274 to 302  °C  Processing (Melt) Temp  279 to 302  °C	Deflection Temperature Under Load			ASTM D648
Injection Nominal Value Unit  Drying Temperature 93.3 to 107 °C  Drying Time 3.0 to 4.0 hr  Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	0.45 MPa, Unannealed, 3.18 mm	204	°C	
Drying Temperature 93.3 to 107 °C  Drying Time 3.0 to 4.0 hr  Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 274 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	1.8 MPa, Unannealed, 3.18 mm	216	°C	
Drying Time 3.0 to 4.0 hr  Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 274 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Injection	Nominal Value	Unit	
Drying Time, Maximum 8.0 hr  Rear Temperature 268 to 302 °C  Middle Temperature 274 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Drying Temperature	93.3 to 107	°C	
Rear Temperature 268 to 302 °C  Middle Temperature 274 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Drying Time	3.0 to 4.0	hr	
Middle Temperature 274 to 302 °C  Front Temperature 279 to 302 °C  Processing (Melt) Temp 279 to 302 °C	Drying Time, Maximum	8.0	hr	
Front Temperature 279 to 302 °C Processing (Melt) Temp 279 to 302 °C	Rear Temperature	268 to 302	°C	
Processing (Melt) Temp 279 to 302 °C	Middle Temperature	274 to 302	°C	
	Front Temperature	279 to 302	°C	
Mold Temperature 79.4 to 121 °C	Processing (Melt) Temp	279 to 302	°C	
	Mold Temperature	79.4 to 121	°C	

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