Nypol® PA B3 G10 V10 NTLA010 NT309

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message

Polyamide 6 natural reinforced with 10% of fiberglass and 10% of glass microsphere, good set of thermal properties, electrical and mechanical. Ideal for injection molding.

Glass Bead, 10% Filler by Weight Glass Fiber, 10% Filler by Weight Glass Fiber, 10% Filler by Weight Glass Fiber, 10% Filler by Weight	General Information				
Natural Color Processing Method Injection Mobiling Resin ID (ISO 1043) >PA 6 GFZ> Physical Dry Conditioned Unit Test Method Specific Gravity 1.19 to 1.21 9 (m³ ASTM D792 Molding Shrinkage - Flow 0.85 to 1.0 % ASTM D955 Water Absorption (Equilibrium) 1.2 % ASTM D570 Mechanical Dry Conditioned Unit Test Method Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D584 Flexural Modulus 4600 3000 MPa ASTM D638 Flexural Strength 155 8.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 Vin ASTM D576 Thermal Dry Conditioned Unit Test Method Under Load (1.	Filler / Reinforcement		Glass Bead,10% Filler by Weight		
Processing Method Injection Moleurs Resin ID (ISO 1043) > PA 6 GF20 × Physical Dry Conditioned Unit Test Method Specific Gravity 1.19 to 1.21 g/cm² ASTM D792 Molding Shrinkage - Flow 0.85 to 1.0 % ASTM D955 Water Absorption (Equilibrium) 1.2 % ASTM D950 Ash Content 18 to 22 % ASTM D570 Ash Content 18 to 22 % ASTM D584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Ized Impact 75 140 Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temp			Glass Fiber,10% Filler by Weight		
Processing Method Injection Molding Resin ID (ISO 1043) > PA 6 GF2V Physical Dry Conditioned Unit Test Method Specific Gravity 1.19 to 1.21 g/cm² ASTM D792 Molding Shrinkage - Flow 0.85 to 1.0 % ASTM D955 Water Absorption (Equilibrium) 1.2 % ASTM D950 Ash Content 18 to 22 % ASTM D570 Ash Content 18 to 22 % ASTM D584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Ized Impact 75 140 Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temper					
Resin ID (ISO 1043) >PA 6 GF20× Physical Dry Conditioned Unit Test Method Specific Gravity 1.19 to 1.21 - g/cm³ ASTM D792 Molding Shrinkage - Flow 0.85 to 1.0 - % ASTM D955 Water Absorption (Equilibrium) 1.2 - % ASTM D950 Ash Content 18 to 22 - % ASTM D2584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D638 Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Welton Temperature Under Load (1.8 MPa, Unannealed) 155 - - °C ASTM D648	Appearance		Natural Color		
Physical Dry Conditioned Unit Test Method Specific Gravity 1.19 to 1.21 9/cm³ ASTM D792 Molding Shrinkage - Flow 0.85 to 1.0 % ASTM D955 Water Absorption (Equilibrium) 1.2 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D638 Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 *C ASTM D648 Melting Temperature 210 to 225	Processing Method		Injection Molding		
Specific Gravity 1.19 to 1.21 g/cm³ ASTM D952 Molding Shrinkage - Flow 0.85 to 1.0 % ASTM D955 Water Absorption (Equilibrium) 1.2 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D638 Flexural Strength 155 8.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit C<	Resin ID (ISO 1043)		>PA 6 GF20<		
Molding Shrinkage - Flow 0.85 to 1.0 % ASTM D955 Water Absorption (Equilibrium) 1.2 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Tensile Elongation (Break) 5.5 8.0 % ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D638 Flexural Strength 155 8.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unit) 155 *C ASTM D648 Melting Temperature 210 to 225 *C ASTM D2117 Injection Dry Unit *C	Physical	Dry	Conditioned	Unit	Test Method
Water Absorption (Equilibrium) 1.2 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Tensile Elongation (Break) 5.5 8.0 % ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D648 Melting Temperature 90.0 Unit °C ASTM D648 Drying Temperature 90.0 Wint °C ASTM D648 Suggested Max Moisture 90	Specific Gravity	1.19 to 1.21		g/cm³	ASTM D792
(Equilibrium) 1.2 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Tensile Elongation (Break) 5.5 8.0 % ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit C ASTM D2117 Injection Dry Unit C ASTM D2117 Injection Dry Unit C ASTM D2117	Molding Shrinkage - Flow	0.85 to 1.0		%	ASTM D955
Mechanical Dry Conditioned Unit Test Method Tensile Strength 100 65.0 MPa ASTM D638 Tensile Elongation (Break) 5.5 8.0 % ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D217 Injection Dry Unit C Drying Temperature 90.0 "C C Drying Temperature 2.0 hr "C Suggested Max Moisture 0.020 "F "C Suggested Max Moisture 220 to 240		1.2		%	ASTM D570
Tensile Strength 100 65.0 MPa ASTM D638 Tensile Elongation (Break) 5.5 8.0 % ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit C ASTM D2117 Unjing Temperature 90.0 °C ASTM D2117 Drying Time 2.0 hr C Suggested Max Moisture 0.020 "C C Processing (Melt) Temp 220 to 240 "C C	Ash Content	18 to 22		%	ASTM D2584
Tensile Elongation (Break) 5.5 8.0 % ASTM D638 Flexural Modulus 4600 3000 MPa ASTM D790 Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit C ASTM D2117 Projing Temperature 90.0 °C ASTM D2117 Suggested Max Moisture 0.020 'C Hr Processing (Melt) Temp 220 to 240 'C 'C	Mechanical	Dry	Conditioned	Unit	Test Method
Flexural Modulus 4600 3000 MPa ASTM D790 Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit C ASTM D2117 Prying Temperature 90.0 C C ASTM D2117 Drying Time 2.0 hr C C Suggested Max Moisture 0.020 % C C Processing (Melt) Temp 220 to 240 *C C *C	Tensile Strength	100	65.0	MPa	ASTM D638
Flexural Strength 155 80.0 MPa ASTM D790 Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit Drying Temperature 2.0 0.0	Tensile Elongation (Break)	5.5	8.0	%	ASTM D638
Impact Dry Conditioned Unit Test Method Notched Izod Impact 75 140 140 1/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit °C Drying Temperature 2.0 0.020 + °C Suggested Max Moisture 0.020 + °C Processing (Melt) Temp 220 to 240 °C	Flexural Modulus	4600	3000	MPa	ASTM D790
Notched Izod Impact 75 140 J/m ASTM D256 Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit C ASTM D2117 Drying Temperature 90.0 °C Foresting (Melt) Temperature 10.020 %C Suggested Max Moisture 0.020 %C Foresting (Melt) Temperature 220 to 240 °C	Flexural Strength	155	80.0	MPa	ASTM D790
Thermal Dry Conditioned Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit Drying Temperature 90.0 °C Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	Impact	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit Drying Temperature 90.0 "C Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	Notched Izod Impact	75	140	J/m	ASTM D256
Under Load (1.8 MPa, Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit °C Drying Temperature 90.0 °C Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	Thermal	Dry	Conditioned	Unit	Test Method
Unannealed) 155 °C ASTM D648 Melting Temperature 210 to 225 °C ASTM D2117 Injection Dry Unit °C Drying Temperature 90.0 °C Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	·				
Injection Dry Unit Drying Temperature 90.0 °C Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C		155		°C	ASTM D648
Drying Temperature 90.0 °C Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	Melting Temperature	210 to 225		°C	ASTM D2117
Drying Time 2.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	Injection	Dry	Unit		
Suggested Max Moisture 0.020 % Processing (Melt) Temp 220 to 240 °C	Drying Temperature	90.0		°C	
Processing (Melt) Temp 220 to 240 °C	Drying Time	2.0		hr	
	Suggested Max Moisture	0.020		%	
Mold Temperature 40.0 to 80.0 °C	Processing (Melt) Temp	220 to 240		°C	
·	Mold Temperature	40.0 to 80.0		°C	

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