Nypol® PA A3 G20 V10 PRTA010 NR302 MSP

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message

Nylon 66 Standard reinforced with 20% glass fiber and 10% of glass spheres, good set of mechanical properties, good set of thermal properties. Ideal for injection molding.

Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow (3.20 mm) 0.30 to 0.70 % ASTM D955 Water Absorption (Equilibrium) 1.3 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notchel Ized Impact 80 J/m ASTM D790 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPA, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D217 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms cm ASTM D257 Flame Rating V-2 Unit Test Method Injection Nominal Value Uni	General Information			
Processing Method Injection Molding Resin ID (ISO 1043) >PA 66 GF20 Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow (3.20 mm) 0.30 to 0.70 % ASTM D955 Water Absorption (Equilibrium) 1.3 % ASTM D570 Ash Content 18 to 22 % ASTM D570 Ash Content 18 to 22 % ASTM D638 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Elexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 % C ASTM D648 Melting Temperature 255 "C <th>Filler / Reinforcement</th> <th colspan="3">Glass Bead,10% Filler by Weight</th>	Filler / Reinforcement	Glass Bead,10% Filler by Weight		
Resin ID (ISO 1043) >PA 66 GF20 Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow (3.20 mm) 0.30 to 0.70 % ASTM D955 Water Absorption (Equilibrium) 1.3 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D257 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 <td></td> <td colspan="3">Glass Fiber,20% Filler by Weight</td>		Glass Fiber,20% Filler by Weight		
Resin ID (ISO 1043) >PA 66 GF20 Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow (3.20 mm) 0.30 to 0.70 % ASTM D955 Water Absorption (Equilibrium) 1.3 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Flexural Modulus 7200 MPa ASTM D638 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D257 Flammability Nominal Value Unit Test Method	Processing Method	Injection Molding		
Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow (3.20 mm) 0.30 to 0.70 % ASTM D955 Water Absorption (Equilibrium) 1.3 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D536 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 "C ASTM D648 Melting Temperature 255 "C ASTM D648 Melting Temperature 255 "C ASTM D257 Flammability Nominal Value Unit Test Method				
Molding Shrinkage - Flow (3.20 mm) 0.30 to 0.70 % ASTM D955 Water Absorption (Equilibrium) 1.3 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D566 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 "C ASTM D648 Melting Temperature 255 "C ASTM D648 Melting Temperature 255 "C ASTM D257 Flammability Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms · cm ASTM D257 Flammability Nominal Value Unit Test Method		Nominal Value	Unit	Test Method
Water Absorption (Equilibrium) 1.3 % ASTM D570 Ash Content 18 to 22 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D648 Melting Temperature 255 °C ASTM D257 Flammability Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method<	Specific Gravity	1.38	g/cm³	ASTM D792
Ash Content 18 to 22 % ASTM D2584 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D790 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D648 Melting Temperature 255 °C ASTM D2177 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 Unit Test Method Flame Rating V-2 Unit Test Method D7900 °C D7900 °C D7900 °C D79000 °C Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.70	%	ASTM D955
Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature Under Load (1.8 Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 Unit Test Method Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Unit Test Method Test Method Unit Test Method	Water Absorption (Equilibrium)	1.3	%	ASTM D570
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Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 7200 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 *C ASTM D648 MPa, Unannealed) 238 *C ASTM D217 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 Unit Unit Drying Temperature 90.0 *C Drying Time 3.0 hr Suggested Max Moisture 0.020 *C	Mechanical	Nominal Value	Unit	Test Method
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Flexural Strength 238 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Unit Test Method Volume Resistivity Nominal Value Unit Test Method Unit Test Method Unit Test Method Organization Organi	Tensile Elongation (Break)	4.0	%	ASTM D638
Impact Nominal Value Unit Test Method Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D217 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Unit Test Method Unit Test Method Object Of Company	Flexural Modulus	7200	MPa	ASTM D790
Notched Izod Impact 80 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 UL 94 Injection Nominal Value Unit Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	Flexural Strength	238	MPa	ASTM D790
Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 Unit Test Method Injection Nominal Value Unit Test Method Organization	Impact	Nominal Value	Unit	Test Method
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MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 255 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Injection Nominal Value Unit Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	Thermal	Nominal Value	Unit	Test Method
Melting Temperature 255 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 UL 94 Injection Nominal Value Unit Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C		238	°C	ASTM D648
Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating V-2 UL 94 Injection Nominal Value Unit Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C			°C	ASTM D2117
Flammability Nominal Value Unit Test Method Flame Rating V-2 UL 94 Injection Nominal Value Unit Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C			Unit	Test Method
Flammability Nominal Value Unit Test Method UL 94 UL 94 Unit Drying Temperature 90.0 C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 C C C C C C C C C C C C C	Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Flame Rating V-2 UL 94 Injection Nominal Value Unit Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	·	Nominal Value	Unit	Test Method
Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C				UL 94
Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	Injection	Nominal Value	Unit	
Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	Drying Temperature	90.0	°C	
Processing (Melt) Temp 260 to 280 °C	Drying Time	3.0	hr	
•	Suggested Max Moisture	0.020	%	
	Processing (Melt) Temp	260 to 280	°C	
Mold Temperature 70.0 to 100 °C	Mold Temperature	70.0 to 100	°C	

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