Nypol® PA A3 G33 HS NTLA013 NR307

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Nylon 6.6 natural reinforced with 33% fiberglass, thermally stable, good set of thermal and mechanical properties. Ideal for injection molding.

Filler / Reinforcement Glass Fiber, 33% Filler by Weight Features Good Thermal Stability Appearance Natural Color Processing Method Injection Molding Resin ID (ISO 1043) >PA 66 6F33 <	General Information			
Appearance Natural Color Processing Method Injection Molding Resin ID (ISO 1043) >PA 66 GF33 Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.30 to 0.70 % ASTM D955 Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D780 Flexural Modulus 10000 MPa ASTM D790 Flexural Strength 238 MPa ASTM D790 Flexural Strength 80 J/m ASTM D790 Impact Nominal Value Unit Test Method Notiched Izod Impact 80 J/m ASTM D648 Melting Temperature Under Load (18 Mra) 238 °C ASTM D256 Thermal Nominal Value Unit Test Method	Filler / Reinforcement	Glass Fiber,33% Filler by Weigh	t	
Processing Method Injection Molding Resin ID (ISO 1043) >PA 66 GF33 < Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow 0.30 to 0.70 % ASTM D955 Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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 MP8, Unannealed) *C ASTM D648 Melting Temperature 260 to 265 *C ASTM D257 Flammability Nominal Value	Features	Good Thermal Stability		
Resin ID (ISO 1043) >PA 66 GF33 Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow 0.30 to 0.70 % ASTM D955 Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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 Mg, Unit) 238 °C ASTM D648 Melting Temperature 260 to 265 °C ASTM D257 Electrical Nominal Value Unit Test Method Volu	Appearance	Natural Color		
Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.30 to 0.70 % ASTM D955 Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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) Ye ASTM D648 Melting Temperature 260 to 265 "C ASTM D217 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257	Processing Method	Injection Molding		
Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.30 to 0.70 % ASTM D955 Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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 260 to 265 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Impection Nominal Value Unit	Resin ID (ISO 1043)	>PA 66 GF33<		
Molding Shrinkage - Flow 0.30 to 0.70 % ASTM D955 Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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 260 to 265 "C ASTM D217 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flame Rating HB Unit Test Method Injection Nominal Value Unit Uni	Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr) 1.3 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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) °C ASTM D648 Melting Temperature 260 to 265 °C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flame Rating HB Unit Test Method Injection Nominal Value Unit Test Method Drying Temperature 9.0 °C Unit Test Method </td <td>Specific Gravity</td> <td>1.38</td> <td>g/cm³</td> <td>ASTM D792</td>	Specific Gravity	1.38	g/cm³	ASTM D792
Mechanical Nominal Value Unit Test Method Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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 260 to 265 "C ASTM D648 Melting Temperature Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating HB Unit Test Method Injection Nominal Value Unit Unit Test Method Drying Temperature 90.0	Molding Shrinkage - Flow	0.30 to 0.70	%	ASTM D955
Tensile Strength 140 MPa ASTM D638 Tensile Elongation (Break) 4.0 % ASTM D638 Flexural Modulus 10000 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 260 to 265 °C ASTM D648 Melting Temperature Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms-cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating HB Unit Unit Test Method Injection Nominal Value Unit Unit Test Method Injection Nominal Value Unit Test Method Test Method Injectio	Water Absorption (24 hr)	1.3	%	ASTM D570
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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 MPa, Unannealed) 260 to 265 °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 HB Unit Test Method Injection Nominal Value Unit Test Method Unit Test Method Unit Test Method Flame Rating HB Unit Flame Rating HB Unit Drying Temperature 90.0 °C Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp	Tensile Elongation (Break)	4.0	%	ASTM D638
ImpactNominal ValueUnitTest MethodNotched Izod Impact80J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)238°CASTM D648Melting Temperature260 to 265°CASTM D2117ElectricalNominal ValueUnitTest MethodVolume Resistivity1.0E+14ohms·cmASTM D257FlammabilityNominal ValueUnitTest MethodFlame RatingHBUnitUnitDrying Temperature90.0°CDrying Temperature3.0hrSuggested Max Moisture0.020°CProcessing (Melt) Temp260 to 280°C	Flexural Modulus	10000	MPa	ASTM D790
Notched Izod Impact 80	Flexural Strength	238	MPa	ASTM D790
Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) Melting Temperature 260 to 265 C ASTM D648 Melting Temperature 260 to 265 C ASTM D2117 Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 Nominal Value Unit Test Method Flammability Nominal Value Unit Test Method Flame Rating HB Injection Nominal Value Unit Drying Temperature 90.0 C Drying Temperature 90.0 C Drying Time 3.0 Nogested Max Moisture 0.020 ASTM D257 Flam Rating UL 94 Flame Ratin	Impact	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 260 to 265 °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 Unit Drying Temperature 90.0 °C Drying Temperature 90.0 °C Drying Time 3.0 hr Suggested Max Moisture 0.020 % Processing (Melt) Temp 260 to 280 °C	Notched Izod Impact	80	J/m	ASTM D256
MPa, Unannealed) 238 °C ASTM D648 Melting Temperature 260 to 265 °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 UL 94 Drying Temperature 90.0 °C Test Method Drying Time 3.0 hr Test Method Suggested Max Moisture 0.020 % Test Method Processing (Melt) Temp 260 to 280 °C Test Method	Thermal	Nominal Value	Unit	Test Method
Electrical Nominal Value Unit Test Method Volume Resistivity 1.0E+14 ohms·cm ASTM D257 Flammability Nominal Value Unit Test Method Flame Rating HB 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
Volume Resistivity1.0E+14ohms·cmASTM D257FlammabilityNominal ValueUnitTest MethodFlame RatingHBUnitInjectionNominal ValueUnitDrying Temperature90.0°CDrying Time3.0hrSuggested Max Moisture0.020%Processing (Melt) Temp260 to 280°C	Melting Temperature	260 to 265	°C	ASTM D2117
Flammability Nominal Value Unit Test Method Flame Rating HB 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	Electrical	Nominal Value	Unit	Test Method
Flame Rating HB 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	Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
InjectionNominal ValueUnitDrying Temperature90.0°CDrying Time3.0hrSuggested Max Moisture0.020%Processing (Melt) Temp260 to 280°C	Flammability	Nominal Value	Unit	Test Method
Drying Temperature90.0°CDrying Time3.0hrSuggested Max Moisture0.020%Processing (Melt) Temp260 to 280°C	Flame Rating	НВ		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	%	
Mold Temperature 70.0 to 100 °C	Processing (Melt) Temp	260 to 280	°C	
	Mold Temperature	70.0 to 100	°C	

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