TRIMID® N6-G15L

Polyamide 6

Polymer Technology and Services, LLC

Message:

TRIMID® N6-G15L is a Polyamide 6 (Nylon 6) product filled with 15% glass fiber. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: lubricated.

Filler / Reinforcement Glass Fiber, 15% Filler by Weight Additive Lubricant Features Lubricated Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.23 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.50 % ASTM D955 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Impact Nominal Value Unit Test Method Impact Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MpA) Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MpA) Nominal Value Unit Test Method Drying Temperature 216 °C ASTM D648 Melting Temperature	General Information			
Features Lubricated Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.23 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.50 % ASTM D955 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Elongation (Break) 10 % ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D638 Flexural Modulus 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D636 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8) 99 C ASTM D648 Melting Temperature 216 C ASTM D648 Mel	Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.23 g/cm² ASTM D92 Molding Shrinkage - Flow 0.50 % ASTM D955 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Flexural Modulus 4560 MPa ASTM D638 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 Unit Test Method Deflection Temperature Under Load (1.8 MPa Unannealed) 99 ***C ASTM D648 Melting Temperature 216 ***C ASTM D648 Melting Temperature 2216 ***C ASTM D648 Melting Temperature 2216 ***C ASTM D648 Melting Temperature 2216 <td>Additive</td> <td>Lubricant</td> <td></td> <td></td>	Additive	Lubricant		
Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.23 g/cm² ASTM D792 Molding Shrinkage - Flow 0.50 % ASTM D955 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D648 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 mg) 199 "C ASTM D648 Melting Temperature 216 "C Injection Drying Temperature 82.2 "C ASTM D648 Rear Temperature 227 to 254 "C Test Method Nozz	Features	Lubricated		
Physical Nominal Value Unit Test Method Specific Gravity 1.23 g/cm² ASTM D792 Molding Shrinkage - Flow 0.50 % ASTM D555 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D638 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 //m ASTM D648 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 Mpa, unannealed) 199 "C ASTM D648 Melting Temperature 216 "C Injection Drying Temperature 8.2.2 "C Injection Middle Temperature 2.21 to 254 "C	Forms	Pellets		
Specific Gravity 1.23 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.50 % ASTM D955 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 82.2 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Middle Temperature 2216 °C C </td <td>Processing Method</td> <td>Injection Molding</td> <td></td> <td></td>	Processing Method	Injection Molding		
Molding Shrinkage - Flow 0.50 % ASTM D955 Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D566 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPA, Unannealed) 199 **C ASTM D648 Melting Temperature 216 **C ASTM D648 Melting Temperature 82.2 **C ASTM D648 Drying Temperature 22.16 **C ASTM D648 Rear Temperature 22.16 **C **C Middle Temperature 22.5 to 254 **C **C Nozzie Temperature 238 to 266 **C **C	Physical	Nominal Value	Unit	Test Method
Water Absorption (24 hr) 1.0 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notchel Izod Impact (3.17 mm) 69 J/m ASTM D566 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 82.2 °C ASTM D648 Melting Temperature 216 °C C Drying Time 3.0 to 4.0 hr *C Rear Temperature 227 to 254 °C *C Modified Temperature 238 to 266 °C *C	Specific Gravity	1.23	g/cm³	ASTM D792
Mechanical Nominal Value Unit Test Method Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 82.2 °C ASTM D648 Melting Temperature 216 °C C Drying Temperature 22.1 °C C Widdle Temperature 22.7 °C C Nozzle Temperature 238 to 266 °C C	Molding Shrinkage - Flow	0.50	%	ASTM D955
Tensile Strength (Yield) 120 MPa ASTM D638 Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D566 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 82.2 °C ASTM D648 Drying Temperature 82.2 °C ASTM D648 Rear Temperature 216 °C C Middle Temperature 216 °C ASTM D648 Rear Temperature 216 °C C Middle Temperature 238 to 266 °C C Nozzle Temperature 238 to 266 °C C <td< td=""><td>Water Absorption (24 hr)</td><td>1.0</td><td>%</td><td>ASTM D570</td></td<>	Water Absorption (24 hr)	1.0	%	ASTM D570
Tensile Elongation (Break) 10 % ASTM D638 Flexural Modulus 4560 MPa ASTM D790 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Nothed Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 82.2 °C *** Drying Temperature 82.2 °C *** Drying Time 3.0 to 4.0 hr *** Rear Temperature < 216	Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus 4560 MPa ASTM D790 Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Nothed Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 *C ASTM D648 Melting Temperature 216 *C *STM D648 Melting Temperature 82.2 *C *STM D648 Drying Temperature 82.2 *C *STM D648 Projing Time 3.0 to 4.0 hr *** Rear Temperature < 216	Tensile Strength (Yield)	120	MPa	ASTM D638
Flexural Strength (Yield) 165 MPa ASTM D790 Impact Nominal Value Unit Test Method Nothed Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Melting Temperature 82.2 °C Processing (Image of the company of	Tensile Elongation (Break)	10	%	ASTM D638
Impact Nominal Value Unit Test Method Notched Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C ASTM D648 Injection Nominal Value Unit Unit Drying Temperature 82.2 °C C Projing Time 3.0 to 4.0 hr Test Method Rear Temperature < 216	Flexural Modulus	4560	MPa	ASTM D790
Notched Izod Impact (3.17 mm) 69 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C Test Method Drying Temperature 82.2 °C Test Method Drying Time 3.0 to 4.0 hr Test Method Rear Temperature < 216	Flexural Strength (Yield)	165	MPa	ASTM D790
Thermal Nominal Value Unit Test Method Deffection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C Injection Nominal Value Unit Drying Temperature 82.2 °C Drying Time 3.0 to 4.0 hr Rear Temperature < 216	Impact	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C Injection Nominal Value Unit Unit Injection Sector	Notched Izod Impact (3.17 mm)	69	J/m	ASTM D256
MPa, Unannealed) 199 °C ASTM D648 Melting Temperature 216 °C Injection Nominal Value Unit Drying Temperature 82.2 °C Drying Time 3.0 to 4.0 hr Rear Temperature < 216	Thermal	Nominal Value	Unit	Test Method
InjectionNominal ValueUnitDrying Temperature82.2°CDrying Time3.0 to 4.0hrRear Temperature< 216		199	°C	ASTM D648
Drying Temperature 82.2 °C Drying Time 3.0 to 4.0 hr Rear Temperature < 216	Melting Temperature	216	°C	
Drying Time 3.0 to 4.0 hr Rear Temperature < 216	Injection	Nominal Value	Unit	
Rear Temperature < 216 °C Middle Temperature 227 to 254 °C Front Temperature 238 to 266 °C Nozzle Temperature 238 to 266 °C Processing (Melt) Temp 232 to 271 °C Mold Temperature 21.1 to 93.3 °C Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Drying Temperature	82.2	°C	
Middle Temperature 227 to 254 °C Front Temperature 238 to 266 °C Nozzle Temperature 238 to 266 °C Processing (Melt) Temp 232 to 271 °C Mold Temperature 21.1 to 93.3 °C Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Drying Time	3.0 to 4.0	hr	
Front Temperature 238 to 266 °C Nozzle Temperature 238 to 266 °C Processing (Melt) Temp 232 to 271 °C Mold Temperature 21.1 to 93.3 °C Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Rear Temperature	< 216	°C	
Nozzle Temperature 238 to 266 °C Processing (Melt) Temp 232 to 271 °C Mold Temperature 21.1 to 93.3 °C Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Middle Temperature	227 to 254	°C	
Processing (Melt) Temp 232 to 271 °C Mold Temperature 21.1 to 93.3 °C Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Front Temperature	238 to 266	°C	
Mold Temperature 21.1 to 93.3 °C Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Nozzle Temperature	238 to 266	°C	
Injection Pressure 82.7 to 172 MPa Back Pressure 0.00 to 0.345 MPa	Processing (Melt) Temp	232 to 271	°C	
Back Pressure 0.00 to 0.345 MPa	Mold Temperature	21.1 to 93.3	°C	
	Injection Pressure	82.7 to 172	MPa	
Screw Speed 40 to 80 rpm	Back Pressure	0.00 to 0.345	MPa	
·	Screw Speed	40 to 80	rpm	

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