Rhelon G2733H-01A

Polyamide 66

RheTech, Inc.

Message:

Rhelon G2733H-01A is a Polyamide 66 (Nylon 66) product filled with 33% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: heat stabilizer.

Filler / Reinforcement Glass Fiber,33% Filler by Weight Additive Heat Stabilizer Features Heat Stabilized Appearance Black Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 159 MPa ASTM D638 Vield 3.1 % ASTM D638 Vield 3.1 % ASTM D638 Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D648 Peak Melting Temperature Under Load (18 Mra) Mra C ASTM D64	General Information			
Features Heat Stabilized Appearance Black Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D670 Mechanical Nominal Value Unit Test Method Tensile Etrength 159 MPa ASTM D638 Tensile Elongation 3.1 % STM D638 Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Inpact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D79 Thermal Nominal Value Unit Test Method Persex Helting Temperature (Under Load (1.8) 249 °C ASTM D648 MPa, Jannealedly 257 °C ASTM D790 <th< td=""><td>Filler / Reinforcement</td><td>Glass Fiber,33% Filler by Wei</td><td>ght</td><td></td></th<>	Filler / Reinforcement	Glass Fiber,33% Filler by Wei	ght	
Appearance Black Processing Method Injection Moldring Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D570 Mechanical Nominal Value Unit Test Method Estrength 159 MPa ASTM D638 Tensile Elongation	Additive	Heat Stabilizer		
Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 159 MPa ASTM D638 Yield 3.1 % STM D638 Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 49 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit Unit Test Method Drying T	Features	Heat Stabilized		
Physical Nominal Value Unit Test Method Specific Gravity 1.38 g/cm³ ASTM D792 Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 159 MPa ASTM D638 Yield 3.1 % STM D638 Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D56 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit Test Method Drying Temperature 29.4 °C ASTM D789	Appearance	Black		
Specific Gravity 1.38 g/cm² ASTM D792 Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 159 MPa ASTM D638 Tensile Elongation	Processing Method	Injection Molding		
Molding Shrinkage - Flow 0.15 to 0.40 % ASTM D955 Water Absorption (24 hr) 0.90 % ASTM D570 Mechanical Nominal Value Unit Test Method Tensile Strength 159 MPa ASTM D638 Tensile Elongation % ASTM D638 Yield 3.1 % STM D638 Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D566 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit Unit Drying Temperature 79.4 °C ASTM D648 Suggested Max Moisture 25 % C Suggested Max Regr	Physical	Nominal Value	Unit	Test Method
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Mechanical Nominal Value Unit Test Method Tensile Strength 159 MPa ASTM D638 Tensile Elongation	Molding Shrinkage - Flow	0.15 to 0.40	%	ASTM D955
Tensile Strength 159 MPa ASTM D638 Tensile Elongation ASTM D638 ASTM D638 Yield 3.1 % Break 3.1 % Flexural Modulus 7930 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit Drying Temperature 79.4 °C ASTM D789 Injection Nominal Value Unit Unit Unit Drying Temperature 79.4 °C ASTM D789 Suggested Max Moisture 0.20 % C Suggested Max Regrind 25 % C Rear Temperature 246 to 257 °C C	Water Absorption (24 hr)	0.90	%	ASTM D570
Tensile Elongation Yield 3.1 % Break 3.1 % Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D256 Thermal Nominal Value Unit Test Method MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Injection Nominal Value Unit STM D648 Injection Nominal Value Unit STM D648 Suggested Max Moisture 0.20 % Suggested Max Regrind 25 % Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Mechanical	Nominal Value	Unit	Test Method
Yield 3.1 % Break 3.1 % Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit STM D789 Injection Nominal Value Unit STM D789 Suggested Max Moisture 0.20 % Suggested Max Regrind 25 % Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Tensile Strength	159	MPa	ASTM D638
Break 3.1 % Flexural Modulus 7930 MPa ASTM D790 Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D256 Thermal Nominal Value Unit Test Method Pellection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit Drying Temperature 79.4 °C Suggested Max Moisture 0.20 % Suggested Max Regrind 25 % Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Tensile Elongation			ASTM D638
Flexural Modulus 7930 MPa MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) Peffection Temperature Under Load (1.8 MPa, Unannealed) MPa, Unannealed) Peak Melting Temperature 249 C ASTM D648 Peak Melting Temperature Nominal Value Unit Test Method ASTM D256 ASTM D648 C ASTM D648 Peak Melting Temperature Prying Temperature Nominal Value Unit C C Suggested Max Moisture D.20 Suggested Max Regrind 256 Rear Temperature 263 to 274 Front Temperature 268 to 282 C C C C C C C C C C C C C	Yield	3.1	%	
Flexural Strength 247 MPa ASTM D790 Impact Nominal Value Unit Test Method Notched Izod Impact (23°C) 99 J/m ASTM D256 Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D648 Injection Nominal Value Unit COMPAN OF ASTM D789 Injection Nominal Value COMPAN OF ASTM D789 Suggested Max Moisture D.20 % Suggested Max Regrind 25 % Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Break	3.1	%	
ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C)99J/mASTM D256ThermalNominal ValueUnitTest MethodDeflection Temperature Under Load (1.8 MPa, Unannealed)249°CASTM D648Peak Melting Temperature257°CASTM D789InjectionNominal ValueUnitDrying Temperature79.4°CSuggested Max Moisture0.20%Suggested Max Regrind25%Rear Temperature246 to 257°CMiddle Temperature263 to 274°CFront Temperature268 to 282°C	Flexural Modulus	7930	MPa	ASTM D790
Notched Izod Impact (23°C) 99	Flexural Strength	247	MPa	ASTM D790
Thermal Nominal Value Unit Test Method Deflection Temperature Under Load (1.8 MPa, Unannealed) 249 °C ASTM D648 Peak Melting Temperature 257 °C ASTM D789 Injection Nominal Value Unit Drying Temperature 79.4 °C Suggested Max Moisture 0.20 % Suggested Max Regrind 256 v % Rear Temperature 246 to 257 °C Middle Temperature 268 to 282 °C Front Temperature 268 to 282 °C	Impact	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed) Peak Melting Temperature 257 Nominal Value Unit Drying Temperature 79.4 C Suggested Max Moisture 0.20 % Suggested Max Regrind 257 Rear Temperature 268 to 282 C C ASTM D648 ASTM D789 C ASTM D789 ASTM D648 ASTM D6	Notched Izod Impact (23°C)	99	J/m	ASTM D256
MPa, Unannealed)249°CASTM D648Peak Melting Temperature257°CASTM D789InjectionNominal ValueUnitDrying Temperature79.4°CSuggested Max Moisture0.20%Suggested Max Regrind25%Rear Temperature246 to 257°CMiddle Temperature263 to 274°CFront Temperature268 to 282°C	Thermal	Nominal Value	Unit	Test Method
InjectionNominal ValueUnitDrying Temperature79.4°CSuggested Max Moisture0.20%Suggested Max Regrind25%Rear Temperature246 to 257°CMiddle Temperature263 to 274°CFront Temperature268 to 282°C		249	°C	ASTM D648
Drying Temperature 79.4 °C Suggested Max Moisture 0.20 % Suggested Max Regrind 25 % Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Peak Melting Temperature	257	°C	ASTM D789
Suggested Max Moisture0.20%Suggested Max Regrind25%Rear Temperature246 to 257°CMiddle Temperature263 to 274°CFront Temperature268 to 282°C	Injection	Nominal Value	Unit	
Suggested Max Regrind 25 % Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Drying Temperature	79.4	°C	
Rear Temperature 246 to 257 °C Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Suggested Max Moisture	0.20	%	
Middle Temperature 263 to 274 °C Front Temperature 268 to 282 °C	Suggested Max Regrind	25	%	
Front Temperature 268 to 282 °C	Rear Temperature	246 to 257	°C	
	Middle Temperature	263 to 274	°C	
Nozzle Temperature 268 to 282 °C	Front Temperature	268 to 282	°C	
	Nozzle Temperature	268 to 282	°C	
Processing (Melt) Temp 263 to 282 °C	Processing (Melt) Temp	263 to 282	°C	

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