

Rhelon X1500-01

Polyamide 6

RheTech, Inc.

Message:

Rhelon X1500-01 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.

General Information			
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.4 to 1.8	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.0	%	
Break	13	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	185	°C	
1.8 MPa, Unannealed	92.2	°C	
Peak Melting Temperature	216	°C	ASTM D789
CLTE - Flow	6.2E-6	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Suggested Max Moisture	0.20	%	
Suggested Max Regrind	25	%	
Rear Temperature	218 to 235	°C	
Middle Temperature	229 to 252	°C	
Front Temperature	241 to 260	°C	
Nozzle Temperature	241 to 266	°C	
Processing (Melt) Temp	241 to 266	°C	

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