

Hiprolon® 400 MNWHL G30

Polyamide 1012

Arkema

Message:

Hiprolon® 400 MNWHL G30 is a polyamide 10.12 produced from a renewable source and reinforced with 30% glass fiber. This black grade is designed for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Renewable Resource Content		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Molding Shrinkage			
Across Flow	0.70	%	ISO 2577, ISO 294-4
Flow	0.20	%	ISO 294-4, ISO 2577
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2
Tensile Stress (Yield)	120	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	12	kJ/m ²	
23°C	23	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	84	kJ/m ²	
23°C	86	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	180	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Vicat Softening Temperature	175	°C	ISO 306
Melting Temperature	189	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	IEC 60093
Comparative Tracking Index	> 600	V	IEC 60112
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 1012, MHLR, 22-070, GF 30		ISO 1874

Renewable Carbon Content	> 43	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 to 280	°C	
Mold Temperature	60.0 to 100	°C	

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