

Hiprolon® 400 FN

Polyamide 1012

Arkema

Message:

Hiprolon® 400 FN is a polyamide produced from a renewable source. This grade is a polyamide 10.12 neat resin.

General Information			
Features	Renewable Resource Content		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.45	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2
Tensile Stress (Yield)	42.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Melting Temperature	190	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 1012, 18-010		ISO 1874
Renewable Carbon Conent	> 43	%	ASTM D6866
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	220 to 280	°C	
Mold Temperature	20.0 to 60.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	4.0	hr
Melt Temperature	210 to 260	°C

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Recommended distributors for this material

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