

Hiprolon® 70 HVN

Polyamide 610

Arkema

Message:

Hiprolon® 70 HVN is a polyamide produced from a renewable source. This grade is a polyamide 6.10 neat resin.

MAIN APPLICATIONS

Monofilament

General Information			
Features	Renewable Resource Content		
Uses	Monofilaments		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress (Yield)	54.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	1800	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	°C	ISO 75-2/A
Melting Temperature	222	°C	ISO 11357-3

Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 610, 32-020		ISO 1874
Renewable Carbon Content	> 60	%	ASTM D6866

Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	8.0	hr	
Processing (Melt) Temp	240 to 300	°C	

Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	

Drying Time	8.0	hr
Melt Temperature	230 to 270	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

