

Hiprolon® 70 VN

Polyamide 610

Arkema

Message:

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

General Information			
Features	Renewable Resource Content		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	%	ISO 62
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 179/1eA
-30°C	7.0	kJ/m²	
23°C	8.0	kJ/m²	
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)	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, 27-020		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	
Mold Temperature	70.0 to 90.0	°C	

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