

Hiprolon® 11 ESNNHL P10

Polyamide 1012

Arkema

Message:

Hiprolon® 11 ESNNHL P10 is a polyamide produced from a renewable source. This natural grade is plasticized and designed for extrusion.

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Appearance	Natural Color		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	28.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	580	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	11	kJ/m²	
23°C, Partial Break	120	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			
0.45 MPa, Unannealed	115	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
Melting Temperature	186	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 1012-P, EHL, 22-005		ISO 1874
Renewable Carbon Conent	> 42	%	ASTM D6866
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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