

Hiprolon® 11 ECN Black H8L P40

Polyamide 1012

Arkema

Message:

Hiprolon® 11 ECN Black H8L P40 is a polyamide produced from a renewable source. This black grade is plasticized and designed for extrusion, particularly for cables sheathing applications.

MAIN APPLICATIONS

Power Cable sheathing

Anti-termite sheathing

Large diameter cable sheathing

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Uses	Cable Jacketing		
	Wire & Cable Applications		
Appearance	Black		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	9.00	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	30.0	MPa	
Break	54.0	MPa	
Tensile Strain			ISO 527-2
Yield	49	%	
Break	> 200	%	
Flexural Modulus	425	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m ²	
23°C	No Break		
Charpy Unnotched Impact Strength			ISO 179
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	181	°C	ISO 11357-3

Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 1012-P, KHL, 22-004		ISO 1874
Renewable Carbon Content	> 40	%	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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