

Hiprolon® 211 ESNWHL P40

Polyamide 1010

Arkema

Message:

Hiprolon® 211 ESNWHL P40 is a polyamide produced from a renewable source. This black grade is plasticized and designed for extrusion.

General Information			
Additive	Plasticizer		
Features	Renewable Resource Content		
Appearance	Black		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	> 50.0	MPa	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Flexural Modulus	320	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	No Break		ISO 179/1eA
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)	45.0	°C	ISO 75-2/A
Melting Temperature	182	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Additional Information	Nominal Value	Unit	Test Method
ISO Shortname	PA 1010-P, EHL, 22-003		ISO 1874
Renewable Carbon Conent	> 80	%	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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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

