

**LIBOLON N160-200****Product description**

LIBOLON N160-200 is a polyamide 6 grade of medium viscosity that is well suited for production of high tenacity filament.

Supply form and storage

LIBOLON N160-200 is supplied pre-dried and ready for processing in a variety of moisture proof containers, such as boxes, bigbags and bulk containers.

Quality Acceptance

LIBOLON N160-200 meet the requirements of "Heavy Metal Test", "RoHS" and FDA 21 CFR 177.1500 " Nylon Resins".

	Test Item	Test Methods	Unit	Actual
Physical Properties	Diameter of Chip	-	mm	2.0~2.5
	Weight of Chip	-	g/100pc	0.88-0.98
	Density	ASTM D792	g/cm ³	1.13
	Ash	burned at 800°C	%	0.00
	Moisture Absorption	ASTM D570	%	4.38 (50% RH)
Mechanical Properties	TensileYield Strength	ASTM D638	Mpa	65.2
	Elongation at Break	ASTM D638	%	180
	Flexural Strength	ASTM D790	Mpa	54.3
	Flexural Modulus	ASTM D790	Mpa	1114.2
	IZOD Notched Impact Strength	ASTM D256	J/m	27.53 (25°C)
	Hardness	ASTM D2240	share D	68
Thermal Properties	Temp of Deflection	ASTM D648	°C	50.4
	UL Flammability	UL94/1.6mm	-	V2
	Melting Point	DSC	°C	222
	Melting Index 270°C, 1.2kg	-	g/10min	26
Electrical Properties	Surface Resistance	ASTM D257	ohm	6.81×10 ¹⁴
	Volume Resistance	ASTM D257	ohm*cm	1.35×10 ¹⁵
	Dielectric Strength	ASTM D149	kV/mm	17.3
	Dielectric Constant at 1MHz	ASTM D150	kV/mm	4.38

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