

Class 130 polyurethane coated polyamide film insulated round copper magnet wire

Table1 Specifications

Insulation Material	Polyurethane/Polyamide
Heat Rating	130
Size/mm	Single: 14-44 AWG Heavy: 9-44 AWG
Certificate	UL



Table 2 Properties

Adhesion and Flexibility	Thin film coating with no visible cracks
Elongation	A value no less than 14-36
Thermal Shock	After treatment at 175°C, the film coating showed no visible cracks
Springback	14- 30AWG Maximum angle per turn: not more than the value in 42-70 Mandrel diameter (mm): not more than the value in 82.6 ± 0.127 – 19.0 ± 0.127 Tension ($\pm 2\%$): not more than the value in $4.45 \pm 2\%$ – $0.56 \pm 2\%$
Dielectric breakdown	9AWG: not less than 18700v-3400v 10-23.5AWG: not less than 2740v-3740v 24-37AWG: not less than 1306v-2710v 38-44AWG: not less than 300v-500v

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Table 2 Properties

Continuity	<p>The maximum discontinuity number complies with $350 \pm 5\% - 2500 \pm 5\%$</p> <p>The maximum discontinuity number complies with 3-15.</p>
Solderability	<p>After immersion at 390°C for the specified time, the maximum number of continuous solder film coverage complies with 10-25.</p>

Table 3 Periodic conformance tests

Thermoplastic flow	The median value is not less than 170°C
Solubility	Samples immersed in xylene should not soften enough to expose bare conductors
Dielectric breakdown at rated temperature	The average value is not less than 75% of the required value at room temperature

Features

High temperature resistance

Easy processing

Excellent insulation properties

Excellent mechanical properties

Operating temperature: Maximum continuous operating temperature up to 130°C , short-term operating temperature may be higher.

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Scratch resistance

Helical Coil Preparation and Bond Retention

Wire Size Range AWG	Mandrel Diameter (inches)	Maximum Winding Force (grams)	Load on Coil During Bonding (grams)	Peel Strength at Room Temperature (grams)	Peel Strength at Elevated Temperature (grams)
14-14.5	0.55	1200	675	850	350
15-15.5	0.47	1200	500	650	250
16-16.5	0.43	1200	450	600	225
17-17.5	0.39	1200	400	500	200
18-18.5	0.35	500	350	425	175
19-19.5	0.31	500	250	350	125
20-20.5	0.28	500	200	285	100
21--21.5	0.24	500	175	225	90
22-23.5	0.20	200	125	160	65
24-25.5	0.16	200	75	110	35
26-27.5	0.12	80	50	70	25
28-31.5	0.08	80	35	35	20
32-33.5	0.04	30	25	25	10
34-37.5	0.04	12	15	12	10
38-40.5	0.04	5	5	8	5
41-41	0.04	5	5	5	5



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郑州蓝普实业有限公司

Zhengzhou LP Industry CO., LTD.

Phone: 0086-19337889070

Web: <https://lpwindingwire.com>

Email: office@cnlpzz.com

Add: NO. 86 Jingsan Road, Jinshui District, Zhengzhou, China