

# Class 155 Polyesterimide coated polyamide film insulated round copper magnet wire

**Table 1 Specifications**

Insulation	Polyesterimide coated
Material	polyamide
Heat Rating	155
Certificate	UL
Standard	MW 20-C



**Table 2 Properties**

Adhesion and Flexibility	No visible cracks in film coating
Elongation	Not less than 5-38
Thermal Shock	No visible cracks in film coating after conditioning at 175°C
Rebound	<p>14-30 AWG:</p> <p>Maximum Angle per Turn: Not more than 42-66</p> <p>Mandrel Diameter (mm): Not more than 82.6±0.127 – 19.0±0.127</p> <p>Tension (±2%): Not more than 4.45±2% – 0.56±2%</p> <p>10-13 AWG: Not more than 5°</p> <p>Dielectric Breakdown: 14-23.5 AWG: 2740v-3520v</p> <p>24-30 AWG: 2380v-2710v</p>
Continuity	<p>14-30 AWG:</p> <p>Maximum number of discontinuities meets 750±5% – 2500±5%</p> <p>The maximum discontinuity number complies with 3-15.</p>

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## magnet wire

Table 3 Periodic conformance tests

Thermoplastic Flow	Mean value not less than 200°C
Solubility	Samples immersed in xylene and 50/50 xylene/butyl cellosolve should not soften enough to expose bare conductors  Solubility: Samples immersed in xylene and 50/50 xylene/butyl cellosolve should not soften enough to expose bare conductors
Dielectric Breakdown at Rated Temperature	Mean value not less than 75% of the value required at room temperature

### 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.

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Phone: 0086-19337889070

Web: <https://lpwindingwire.com>

Email: [office@cnlpzz.com](mailto:office@cnlpzz.com)

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