

Class 155 Polyester Glass Fiber Covered Bare Square Copper Magnet Wire

Table1 Specifications

Insulation materials	Polyester Glass Fiber
Thermal Class	155
Conductor	Copper
Insulation thickness	Single/Double/Heavy
Certificate	MW-46C



Table 2 Properties

Properties	Requirement
DIMENSIONS	Square Wire: 1. Radii in accordance with 0.40-1.00mm 2. Thickness and width tolerances in accordance with 1.628-7.348mm 3. Dimensions and increase in thickness: ---Single Polyester Glass Fiber Covered: in accordance with 1.628-8.252mm ---Double Polyester Glass Fiber Covered: in accordance with 1.930-8.738mm



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Table 2 Properties

ADHERENCE AND FLEXIBILITY	<p><u>Double without underlying film</u>: Not less than 75 V/mil (2950 V/mm) of minimum thickness of the polyester glass fiber covering on one side</p> <p>NOTE—The minimum thickness of the polyester glass fiber covering is 35% of the maximum increase in dimensions calculated from:</p> <p>Square: 1.930-8.738mm</p>
ELONGATION	<p>Not less than 32% for a thickness of 0.049 in. (1.25 mm) and greater, or 30% for a thickness less than 0.049 in. (1.25 mm)</p>
SPRINGBACK	<p>Polyester glass fiber covered bare: not greater than 5°</p>
DIELECTRIC BREAKDOWN	<p>Not less than 90 V/mil (3543 V/mm) of the minimum thickness of the glass fiber covering on one side</p> <p>NOTE—The minimum thickness of the glass fiber covering is 35% of the maximum increase in dimensions calculated from:</p> <p>Single Polyester Glass Fiber Covered: Square: 1.654-8.329mm</p> <p>Single Polyester Glass Fiber Covered: Square: 1.930-8.738mm</p>

NOTE—This specification corresponds with IEC 60317-60-1 (under development)



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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