

Class 155 Polyurethane Overcoated with Polyamide Self-Bonding

Round Copper Magnet Wire for Solderable Applications

Table1 Specifications					
Insulation materials	The underlying coating is based on				
	polyurethane.				
	The intermediate coating is based on				
	polyamide.				
	The superimposed coating is based on				
	resins that are self-bonding in				
	character.				
Dimensions	Type 1: 14-44 AWG in accordance with				
	0.067mm-1.732mm				
	Type 2: 14-44 AWG in accordance with				
	0.074mm-1.773mm				
Thermal Class	155				



Table 2 Periodic conformance tests

Thermoplastic Flow	Median not less than 200°C
Dielectric breakdown at	Average not less than 75% of the value required at room temperature
rated temperature	
Bond strength at elevated	Bond conditions and strength requirements as agreed between customer
temperature	and supplier

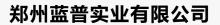


Table 3 Properties

Adherence and flexibility	No cracks visible in the film coating					
Elongation	Not less than the value in 5-38					
Heat shock	No cracks visible in the film coating after conditioning at 175°C					
Springback	Not greater than the value in Type 1 42-66; Type 2 46-70					
Dielectric breakdown	14-23.5 AWG: not less than the value in Type 1 2470v-3170v; Type 2 4440v-5690v					
	24-37 AWG: not less than the value in Type 1 610v-1220v; Type 2					
	1020v-2190v 38-44 AWG: not less than the value in Type 1 275v-450v; Type 2 550					
	(polyamide col.)	amide col.)				
	*Polyamide column					
Continuity	Max number of discontinuities in accordance with Type 1 350-1000; Type 500-1500					
Solderability	Covered with continuous film of solder after immersion within the time and					
	temperature specified:					
	AWG Size	Temperature	Туре 1	Туре 2		
	14-19.5	430°C	8 seconds	10 seconds		
	20-23.5	430°C	6 seconds	8 seconds		
	24-29.5	390°C	5 seconds	6 seconds		
	30-36	390°C	4 seconds	5 seconds		
	37-44	390°C	3 seconds	4 seconds		

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