

ELEKTRISOLA Copper Magnet Wire Types

ELEKTRISOLA - Product - Name ELEKTRISOLA - Product - Code	Polysol 155 P155
<p>General</p> <p>Description</p> <p>Standards IEC (including the following norms) NEMA (including the following norms)</p> <p>UL-approval</p> <p>Diameters available</p> <p>Technical values</p> <p>1. Thermal values</p> <p>Temperature index 20.000 h acc. to IEC 60172</p> <p>Cut through temperature min °C acc. To IEC 60851.6.4 Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1</p> <p>Heat shock min °C acc. to IEC 60851.6.3 Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1</p> <p>2. Electrical values</p> <p>Low voltage continuity max. acc. to IEC 60851.5.1 for 0.05 mm/0.025 mm Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1</p> <p>High voltage continuity max. acc. to IEC 60851.5.2 for 0.05 mm/0.25 mm Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1</p> <p>Pin hole acc. to IEC 60851.5.7, with 0 % and 3 % elongation</p> <p>Breakdown voltage (at 20°C, 35% humidity), acc. to IEC 60851.5.4 Elektrisola typical values acc. to cylinder test 0.05 mm/0.25 mm, Grade 1</p> <p>Decrease of breakdown voltage in % at elevated temperature Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1, in % at °C</p> <p>3. Mechanical values</p> <p>Elongation min. acc. to IEC 60851.3.3 for 0.05 mm/0.25 mm, Grade 1 Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1</p> <p>Tensile strength Elektrisola typical values for 0.05 mm/0.25 mm, Grade 1</p> <p>4. Chemical compatibility</p> <p>Standard solution Pencil Hardness acc. to IEC 60851.4.3 / untreated Decrease of breakdown voltage in %</p> <p>General statements about chemical compatibility are not possible due to the high number of influencing factors such as winding, impregnationmoulding and cleaning materials etc.</p> <p>5. Solderability</p> <p>acc. to IEC 60851.4.5, max. seconds at °C für 0.05mm/0.25mm Elektrisola-typical values acc. to IEC 60851.4.5 for 0.05 mm, Grade 1, seconds at °C for 0,25 mm, Grade 1, seconds at °C</p> <p>Properties</p> <p>Applications</p>	<p>mod. Polyurethane IEC 60317-20, IEC 60317-4 MW79 , MW2, MW75 yes 0.01 - 0.50 mm</p> <p>158°C</p> <p>≥ 200°C 225 / 230°C</p> <p>≥ 175°C 190 / 180°C</p> <p>≤ 40 / ≤ 10 0 / 0</p> <p>≤ 40 / ≤ 10 2 / 1</p> <p>not resistant</p> <p>240 / 180 V/μm</p> <p>25 % at 155°C</p> <p>≥ 14% / ≥ 25% 23% / 40%</p> <p>57 / 1370 cN</p> <p>4H / 4H 5 %</p> <p>2s/390°C / 2s/390°C 0.3s/370°C / 0.2s/390°C 0.7s/370°C / 0.5s/390°C</p> <p>Very good solderability, good thermal properties, low sensitivity against humidity.</p> <p>Used in small transformers, linear motors, relays, solenoids, small motors, clock coils, fly-back-transformers, magnetic heads, instruments.</p>
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ELEKTRISOLA typical values are the result of various tests and represent average values.