characteristics \ denomination	SB 150	SB 155	SB 160	SB 180	VP 160	VP 180	WP 180
thermal class	150°C	158°C	174°C	195°C	174°C	192°C	195°C
base coat	mod. Polyurethane	mod. Polyurethane	mod. Polyurethane	mod. Polyurethane	mod. Polyurethane	mod. Polyurethane	Polyesterimide
bonding coat	Polyvinylbutyral	Polyvinylbutyral	Polyvinylbutyral	Polyvinylbutyral	Polyamide	Polyamide	Polyamide
reference to the international Standards	IEC 60317-2 MW 131	IEC 60317-35, IEC 60317-2 MW 131	IEC 60317-35, IEC 60317-2 MW 131	IEC 60317-35, IEC 60317-2 MW 131	IEC 60317-35, IEC 60317-21 MW 131	IEC 60317-35, IEC 60317-21 MW 131	IEC 60317-36, IEC 60317-22
UL - approval	file E 143017	file E 143017	file E 143017	file E 143017	file E 143017	file E 143017	file E 143017
diameters range (mm)	0,010 0,045mm	0,010 0,045mm	0,010-0,045mm	0,010-0,045mm	0,010-0,045mm	0,010-0,045mm	0,010-0,045mm
cut through temperature IEC 60851-6.4 Ø 0,040 mm	210°C	210°C	245°C	260°C	245°C	260°C	360°C
heat shock IEC 60851-6.3 Ø 0,040 mm	>180°C	>180°C	>180°C	>200°C	>180°C	>200°C	>200°C
significant properties	hot-air-, oven-, resistance- and solvent bonding				hot-air and solvent bonding		hot-air bonding
applications	coils for medical technology: heraring aids, pacemakers, motor for dentist drills etc. coils for entertainment industry: audioheads, microphones, headphones, mobile phones, coils for watches, clockworks, movements etc. coils for measuring instruments, control instruments, transponders, coils for cards: credit cards, telephone cards, hotel cards, identification cards, etc						
storage	storage cool, dry and light protected. Humidity <50%, stable temperature < 23°C						
	≤6 months	≤6 months	≤6 months	≤6 months	≤3 months	≤3 months	≤3 months
recommended bonding temperature	140 - 170°C	160 - 190°C	160 - 190°C	170 - 200°C	170 - 200°C	170 - 210°C	180 - 220°C
resoftening temperature IEC 60851-3 7.1.2.4	≥ 100°C	≥ 100°C	≥ 100°C	≥ 100°C	≥ 150°C	≥ 150°C	≥ 180°C
breakdown voltage at 20 °C, 35% humidit. Ø 0.04mm: ISODRA values	160 V/µm	160 V/µm	160 V/µm	160 V/µm	160 V/µm	160 V/µm	160 V/µm
Elongation for Grade 1 wire. Ø 0.04mm: acc. IEC 60851-3.3	≥ 9%	≥ 9%	≥ 9%	≥ 9%	≥ 9%	≥ 9%	≥ 9%
ISODRA values	≥ 18%	≥ 18%	≥ 18%	≥ 18%	≥ 18%	≥ 18%	≥ 18%
solderability for Grade 1. Ø 0.04mm: acc. IEC 60851.4.5	1.0s / 375°C	1.0s / 375°C	1.0s / 375°C	1.0s / 390°C	2.0s / 390°C	2.0s / 390°C	2.0s / 470°C
ISODRA values	<1.0s / 375°C	<1.0s / 375°C	<1.0s / 375°C	<1.0s / 390°C	<2.0s / 390°C	<2.0s / 390°C	<2.0s / 470°C