

denomination	V 155	V 180 AGA	V 160	V 180	V 180 AGA	W 180
characteristics						
thermal class	F 158° C	F/H 168°C	F/H 174°C	H 195°C	H 188°C	H 195°C
base coat	modified Polyurethanes	modified Polyurethanes	modified Polyurethanes	modified Polyurethanes	modified Polyurethanes	Polyesterimide
bonding coat						
reference to the international Standards	IEC 60317-20, IEC 60317-4 MW 79, MW 2, MW 75	IEC 60317-20, -51, IEC 60317-4 MW 79, MW 2, MW 75	IEC 60317-20, -51, IEC 60317-4 MW 79, MW 2, MW 75	IEC 60317-51, IEC 60317-20 MW 82, MW79, MW75	IEC 60317-51, IEC 60317-20 MW 82, MW79, MW75	IEC 60317-23, IEC 60317-8 MW 77, MW 5, MW 26
UL - approval	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 - 0,045 mm	0,010 - 0,045 mm	0,010 - 0,045 mm	0,010 - 0,045 mm	0,010 - 0,045 mm
cut through temperature IEC 60851-6.4 Ø 0,040 mm	≥ 210° C	≥ 245° C	≥ 245° C	≥ 260° C	≥ 260° C	≥ 360° C
heat shock IEC 60851-6.3 Ø 0,040 mm	180° C	180° C	180° C	200° C	200° C	240° C
significant properties	solderability: very good thermal properties: high	solderability: very good thermal properties: high	solderability: very good thermal properties: high	solderability: good thermal properties: elevated	solderability: good thermal properties: elevated	solderability: high temperatures thermal properties: high chemical resistance: good
applications	electronics, electro technology, automotive key remote controls, various spools for cars, medical technology: hearing aids, pacemakers, dentist drills motors RELAYS (ISODRA AGA quality = extremely low outgassing), flybackacktransformers, transformer, disc drivers etc. coils for watches, clockworks, movements, coils for measuring instruments, control instruments, transponders, electrical switches etc.					
storage	storage cool, dry and light protected. Humidity <50%, stable temperature < 23°C					
	≤ 12 months	≤ 6 months	≤ 12 months	≤ 12 Monate	≤ 6 months	≤ 6 months
recommended bonding temperature	-----					
resoftening temperature IEC 60851-3 7.1.2.4	-----					
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
Elongation for Grade 1 wire. Ø 0.04mm: acc. IEC 60851-3.3	≥ 9%	≥ 9%	≥ 9%	≥ 9%	≥ 9%	≥ 9%
ISODRA values	≥ 18%	≥ 18%	≥ 18%	≥ 18%	≥ 18%	≥ 18%
solderability for Grade 1. Ø 0.04mm: acc. IEC 60851.4.5	2.0s / 390°C	2.0s / 390°C	2.0s / 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	<1.0s / 390°C	<2.0s / 470°C