

Elantas Impregnating Varnish and Resins Selector Chart

Product	Feature-Advantage-Benefit	Type	Reducer Monomer	% Non-Volatile	Flash Point (F)	Viscosity (cps) @ 25C	Cure Time (hours)	Cure Temp (°F)	Dielectric Strength (volts/mil)		Bond Strength ASTM D2519		UL Listed
									(Dry)	(Wet)	25°C	150°C	
Impregnation & Trickle Unsaturated Polyester & Co-polymer Resins													
Pedigree 50VT-170	Low viscosity, flexible, pre-catalyzed	UP	VT	100	53	160-180	1-2	150-177	3970	2781	18.2	3	Yes
Pedigree 4000SW	Low run-off, Inverter duty app.	Co-polymer	--	100	53	100-300	2-3	135	4120	4630	28	15	Yes
Pedigree 600 HI Bond	Excellent high-temp. bond	UP	Styrene	100	30	220-305	<1	150-177	3150	1380	62	20	Yes
Pedigree 70VT Pre-Cat	Low viscosity, semi-rigid, pre-catalyzed	UP	VT	100	53	294-425	2-4	135-150	2760	2150	28	3.7	Yes
Pedigree 6183SW	Extended profile, excellent high temp. bond, quick-low temp. processing	UP	VT	100	53	150-250	5-10 min	105-121	3840	3420	33	27	Yes
Pedigree 8183 SW	Extended pot life, exc. High temp. bond, quick-low temp. processing	UP	VT	100	53	150-250	5-10 min	105-121	3400	2100	33	28	Yes
Ranvar 2003AK	Co-polymer, motors, VPI/dipping; Good moisture resistance	Co-polymer	VT	100	53	450-750	2-4	150	3200	2800	30	6	Yes
Sterling 075-0015	High bond strength, excellent shelf-life	UP	Styrene	100	30	600-800	1	140-150	4318	3403	55	8.8	Yes
Sterling 075-1775	High voltage random wound and form wound coils, VPI/dipping	UP	VT	100	53	875-1100	2-3	140-160	--	--	--	--	--
Sterling 075-3489	Low viscosity, high bond, resilient red type available	UP	Styrene	100	33	60-70	0.5	130	--	--	--	--	--
Sterling 075-3798	Excellent high temp. bond, high resilience	UP	Styrene	100	33	200-400	0.5	130	--	--	20	7	Yes
Sterling 075-3715	Gel coat, armatures, semi-rigid, longer gel time	UP	Styrene	100	33	280000-300000	0.5	135	--	--	--	--	--
Sterling 075-4715	Gel coat, armatures, flexible	UP	Styrene	100	33	>600000	0.5	135	--	--	--	--	--
Pedigree 6180	Excellent high temp. bond, quick cure	UP	VT	100	30	VT	5-10 min	105-121	3840	3420	33	27	Yes
VPI Resins													
P.D. George 433-75-VTC	VPI – Motors Form Wound	Polyester-Precatalyzed	VT	100	127	600-800	2-4	300/350	5380	2790	57	3	Yes
PD George 600 DAP	VPI/Dip-Motors-Coils	Polyester-Precatalyzed	DAP	100	>250	600-800	4-6	300/350	5780	4850	41	21	Yes
PD George E-900LV	VPI-Motors	Epoxy	N/A	100	>250	600-1000	3-4	300/350	4000	3000	48	5	Yes

EpoxyLite E-477	Low Viscosity VPI Resin	Epoxy	N/A	100	>200	1500-2000	8-12	300/325	2600		56	NA	Yes
EpoxyLite E-478	Universal VPI Resin	Epoxy	N/A	100	>200	2500-4500	4-6	300/325	1600	1400	59	5	Yes
RanVar B-7-373	Dip & VPI	Unsaturated Polyester	V.T.	—	127	900-1200	1-4	300	2000	1800	23	4	No
RanVar B-7-606	Dip & VPI	Unsaturated Polyester	DAP	—	>200	500-800	2-4	300	3000	2500	45	15	Yes
RanVar B-7-609	Dip & Trickle	Unsaturated Polyester	Styrene	—	88	200-400	10-15 min.	330	3300	2500	27	14	Yes
Water-Based Resins & Varnish													
Guardian GRC 59-10	No VOC or HAPS, high retention, excellent bond strength	Epoxy emulsion	DI water	9-11	>94	--	2-4	150-171	6100	4900	60	35	Yes
Guardian GRC 59-42	No VOC or HAPS, high retention, excellent bond strength	Epoxy emulsion	DI water	41-43	>94	40-150	2-4	150-171	6100	4900	60	35	Yes
Guardian GRC 59-50	No VOC or HAPS, high retention, excellent bond strength	Epoxy emulsion	DI water	48-52	>94	600-2000	2-4	150-171	6100	4900	60	35	Yes
Pedigree 1000-70	Water-reducible	Polyester	Water	67-70	>94	1600-2500	2-6	108-150	3600	3300	28.1	5.7	Yes
Pedigree 2500-30M	Water-reducible, low VOC, no co-solvent	Polyester	Water	29-31	>94	--	2-4	121-150	3000	2940	32	5.1	Yes
Pedigree 2500-25MUV	Water reducible, low VOC, no co-solvent	Polyester	Water	24-26	>94	--	2-4	121-150	3000	2940	32	5.1	Yes
Isonel ISOPOXY 771B	Dip, high bond, Freon resistant, stators/high speed rotors	Waterbased Epoxy	Water	28-32	>94	200-400	2-4	130-171	5100	5100	55	20	Yes
Isonel ISOPOXY 800P	Dip, high bond, Freon resistant	Waterbased epoxy	Water	28-32	>94	200-400	2-4	130-171	5100	5100	55	20	Yes
Impregnation & Trickle Epoxy Resins & Varnish													
Ripley E 468-2FXT	Flexible, good heat dissipation, excellent noise dampening	Epoxy	--	100	>94	400-600	4-6	140-160	2200	2000	--	--	Yes
Ripley E 468-2	Flexible, excellent noise dampening, long field history	Epoxy	--	100	>94	300-500	4-6	140-160	2200	2000	--	--	Yes
Ripley E 468-2FC	Flexible, excellent noise dampening, fast cure	Epoxy	--	100	>94	290-400	2-4	140-160	2200	2000	--	--	Yes
Ripley E 468-2-7FC	Flexible, good heat dissipation, excellent noise dampening	Epoxy with 30% filler	--	100	>94	4000-6000	2-4	140-160	2200	2000	--	--	Yes
Sterling E 300	Industry standard, wet winding, brush on	Epoxy	--	100	>94	350000-420000	4-6	150	3500-4000	2800-3800	27	3	Yes
Sterling E 300-20	Industry standard, wet winding, brush on	Epoxy	--	100	>94	180000-230000	4-6	150	3500-4000	2800-3800	27	3	Yes
Ripley E 478 THIXO VPI	Industry standard, UL system-medium voltage 6500V	Epoxy	--	100	>94	1500-4500 cps	4-6	150-163	1600	1400	59	5	Yes

Guardian GRC20-32.5 REV 3	Low temperature cure, good heat dissipation, high bond	Epoxy with filler	--	100	>94	450-1100	4-6	150	2500	--	44	--	Yes
Potting & Encapsulation Resins													
Pedigree 200 & 65 Hardener	Potting/impregnating, high voltage electrical and electronic components	PU	--	100	>94	700-1000/45-65	1-3	100-121	1000	1860	--	--	--
Pedigree E57 Red & 226 Hardener	Potting/encapsulation for mechanical or electrical applications	Epoxy with filler	--	100	77	1000-1500/40-60	10-60 min	25-100	637	396	--	--	--
Pedigree E88 & C89	Potting/encapsulation high voltage coil and flyback coil	Epoxy with filler	--	100	>94	1400@90	1	135	775	--	--	--	Yes
Pedigree 300 Series	Flexible, excellent noise dampening, long field history	UP with filler	Styrene	100	30	125-400	2-4	25	--	--	--	--	--
Finishing Varnish & Impregnating Varnish													
Sterling 009-0008	Clear, air-dry anti-tracking varnish, UL 180 class	Alkyd	Xylene	39-41	15	100-125S/B4	50-60 min	25	--	--	--	--	--
Sterling 003-1980	Solvent modified hard isophthalic varnish	Alkyd	Xylene	48-52	15	120-145S/B4	4-6	130-160	--	--	--	--	--
Isonel 885	High bond, fast cure	Alkyd	Xylene	48-52	29	200-400	1-4	121-149	4300	3000	45	4	Yes
Pedigree 434-66	Clear, fast air dry, black type available	Alkyd	Xylene	37-40	15	150-300	30-60 min	60-120	3141	2607	4	0.7	Yes
Sterling 003-1981	Motors/coils/transformers, dip & bake, alkyd, quick curing	Alkyd	Xylene	48-52	15	120-145S/B4	4-6	130-160	--	--	--	--	--
Sterling 003-1010	Dip and bake, alkyd, motor repair	Alkyd	Xylene	47-50	15	90-100S/B4	4	130	--	--	--	--	Yes
Sterling 77X-010	Clear, fast air dry with UL 180 thermal class	Alkyd	Xylene	34-48	8	40-100	30-60 min	25	4000	2700	--	--	Yes
Viking V1630 FS Clear	Air dry, dipping/spray/brush, no aromatic content	Alkyd	VM & P Naptha	34-36	8	50-60	20 min	25	3350	2400	24	3.3@100	Yes
Sterling Y-210	Industry standard, excellent tank stability	Alkyd	Xylene	46-50	30	150-250	2-4	150-170	4000	3800	27	3	Yes