



Resins, Varnishes, and Compounds

Description	Product Number	Reducer/ Monomer	% Non-Volatile (lbs./gal.)		Viscosity (cps @ 25°C)
SOLVENTLESS RESINS					
RanVar Copolymer High Voltage	2003***	BS-217	100	8.9	800 ± 100
High Performance, High Voltage, Polyester	2070VT***	BS-217	100	9.1	600 ± 100
VPI, High Build Epoxy, Med. Voltage	B-7-619	B-7-619LV	100	9.4	2000/4000
VPI, High Voltage, Polyester	B-7-373***	BS-217	100	8.9	1050 ± 150
High Flash, Low Odor, High Bond	B-7-606***	BS-221	100	9.9	650 ± 150
Trickle & Roll Through, High Bond Polyester	B-7-609	Styrene & V.T.	100	9.4	300 ± 100
Heatless Chemical Cure—Trickle Polyester	B-7-609CC	Styrene & V.T.	100	9.4	300 ± 100
Polyester, Trickle Kits	B-7-614FC	BS-217	100	8.9	1000 ± 100
WATER SOLUBLE					
High Solids, General Purpose, Polyester	B-535-5S**	Water	70 ± 2	9.0	25,000
SOLVENT BORNE VARNISHES					
High Bond and Solids, Pure Epoxy	TSR-601	TCR-901	60 ± 2	9.0	240 ± 40
General Purpose, Polyester	B-540-15	BS-107	45 ± 1	7.5	125 ± 25
Air Dry, Alkyd	B-277-2	BS-107	35 ± 1	7.2	80 ± 15 cps
General Purpose	31-398 †	BS-107	48 ± 2	7.74	275-370
General Purpose	31-66 †	80:20 mineral spirits 66/3: methoxy propanol	48 ± 2	7.49	275-370
G.P. High Thermal Rating	51 †	BS-107	50 ± 2	7.99	160-250
Rule "66" Hi-Flash Point	51-66HF †	XV-930	48 ± 2	7.74	650-1050
High Bond Strength, Low Temp.	433-50A †	3:1 xylol/butoxyethanol	50 ± 2	8.41	600-1000
ISOPOXY					
High Bond Strength, Hermetic	800 †	80:20 water/butoxyethanol	32 ± 2	8.57	300-400
High Bond Strength, Hermetic	771†	80:20 water/butoxyethanol	32 ± 2	8.62	300-400
SOLVENTLESS ISOLITE					
Pre-catalyzed Solventless Varnish	862 †	BS-307	100	9.82	480-800
POTTING COMPOUND					
Flexible, Potting	2991†	BS-217	100	7.87	4000-8000/2000-4000
EPOXY/URETHANE COMPOUNDS					
		Mix Ratio by WT	Pot Life		Viscosity (CPS)
Epoxy, Trickle Kit	B-7-613	100:20	45 Mins.		1800
Black, F.R., UL 94V0	ERX-023	100:106	45 Mins.		29,000/23,000
Black, Low Viscosity Filled	TR-304	100:20	50 Mins.		6,000
Amber, Low Viscosity, Unfilled	TR-310	100:50	40 Mins.		2,000
Black, Very Fast Curing	TR-348	100:100	8 Mins.		7,400
Black, Flexible, F.R., Fast Curing	TR-375	100:17	60 Mins.		2,300
Black, Resilient, Excellent Electricals	TR-408*	100:25	22 Hours		6,500
Natural, Thixo, High Bond	TSR-150	1 Component	3 Months****		270,000/80,000

Varnishes and Resins are available in 1 gallon, 5 gallon, 55 gallon drums, and 330 gallon tote containers.

* Mil approved ** Range of % non-volatile viscosities and colors

*** Higher film build versions available **** Shelf life can be extended by cold storage

† Schenectady International products which are now manufactured and marketed by Ranbar





Resins, Varnishes, and Compounds (cont.)

Cure Cycle (Hours)	Dielectrics Dry	Wet	Bond Strength 25°C	150°C	U.L. Approved Systems	Application (See below)
1-2 @ 165°C	3250	2800	28	6	130-220	1-2-3-5-6-7
2-4 @ 150°C	2800	2000	21	5	130-220	1-2-3-5-7
4-6 @ 160°C	2760	2600	67	7	130-180	1-2-5-6-7
1-4 @ 150°C	2000	1800	23	5	130-220	1-2-5-6-7
2-4 @ 155°C	3000	3000	45	15	130-220	1-2-3-4-5-6-7
< .25 @ 160°C	3300	2500	25	9	130-180	1-2-3-5
5-10 Mins. @ 25°C	3300	2500	25	9	130-180	1-2-3-5
8 Mins. @ 100°C	2000	1800	23	5	N/A	1-4-5-6
2-3 @ 121-135°C	3700	3300	38	18	130-220	1-2-3-5-7
2-4 @ 150°C	3500	2800	40	16	—	1-3-4-5-6-7
2-4 @ 125-135°C	4000	3500	38	5	130-220	1-3-5-7
10-15 Mins. @ 25°C	2200	1800	--	—	130-180	1-2-3-4-5
1-2 @ 135-163°C	4150	3050	45	4	130-220	1-5-7
1-4 @ 135-177°C	4000	3100	40	3	130-220	1-5-7
2-8 @ 300-400°C	4400	3500	21.5	1.3	180-220	1-2-5-7
2-8 @ 300-400°C	3700	2500	21	1	180-240	1-2-5-7
1-4 @ 135-163°C	4600	4000	50	15	155-200	1-2-6
2-4 @ 135-177°C	5100	5100	55	20	180-220	1-2-6
2-4 @ 135-177°C	5100	5100	55	20	180-220	1-2-6
1-4 @ 149-177°C	5300	4950	55	13	155-200	1-2-6-7
Varies	--	--	--	--	--	--
Cure @ 25°C	Specific Gravity		Hardness (Shore D)		Operating Temp. °C	Application
< 30 Mins. @ 57°C	1.14		84		155	1-4-5-6
4-6 Hours	1.63		70		155	7-8-9
2 Hours	1.58		80		135	7-8-9
2 Hours	1.09		82		135	7-8-9
10 Mins.	1.06		78		135	8-9-10
3 Hours	1.48		30		135	7-8-9
3 Hrs. @ 130°C	1.51		74		180	7-8-9
4-8 Hrs. @ 150°C	1.38		90		180	2-3-4-6-10

Application:
1 - stator
2 - form wound
3 - field coil
4 - interpole
5 - armature

6 - rotor
7 - transformers
8 - potting
9 - molding
10 - adhesive

10

