

ELAN-*Tron*[®], ELAN-*Cast*[®], and Bectron[®] resins for Electronic Protection

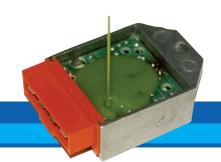


Electronic Protection



Application Methods

Vacuum Potting • Meter-Mixing Atmospheric Potting



Product Summary

ELAN-*Tron*[®] U polyurethane resins provide electrical insulation with superior environmental protection. The two-part systems cure at room temperature or with low heat. Flexibility and a low exotherm minimize stress on sensitive components. They are typically dispensed with meter-mix equipment and are available in filled and unfilled versions.

ELAN-Cast® E resins provide electrical insulation with the enhanced chemical resistance of an epoxy.

Bectron® PK resins are singlecomponent, low heat-cured polyurethanes offering excellent flexibility for protection of sensitive electronic components.

Product Uses

- Automotive Electronics
- Sensors & Actuators
- Safety Devices
- Control Modules
- Transducers



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Product Characteristics at a Glance				Glass		Coefficient of			Maximum
		Mixed	Mix	Transition		Thermal Expansion	Gel Time	Cure Schedule	Service
		Viscosity	Ratio	Temperature	Shore	(ppm/°C)	at 25°C	for Optimum	Temperature
		cP at 25°C	(by weight)	(Tg)	Hardness	before/after Tg	(minutes)	Properties	(IEC 60085)
ELAN-Tron® U 225 Black Resin ELAN-Tron® UH 5105 Hardener	General-purpose, unfilled polyurethane resin system. Low	275 - 350	100 : 43	5 - 10°C	60 - 70 A	140/310	12 - 16	72 h at 25°C	130°C
	viscosity.							or	
								2 h at 80°C	
ELAN-Tron® U 510S Brown Resin ELAN-Tron® UH 510S Hardener	Unfilled polyurethane resin system. Designed for automotive applications. Flexible to -40°C or below. Resistant to hydrolysis (85°C / 85% RH).	3200 - 4200	100 : 24	<-60°C	50 - 60 A	n.a. / 200	20 - 25	72 h at 25°C	130°C
								or	
	(65 C / 65% HT).							2 h at 80°C	
ELAN-Tron® U 510S-6 Thixo Resin ELAN-Tron® UH 510S Hardener	Unfilled polyurethane resin system, available in black or brown.	6500 - 8500	100 : 24	<-60°C	50 - 60 A	n.a. / 200	5 - 7	72 h at 25°C	130°C
	Designed for automotive applications. Flexible to -40°C or below.							or	
	Excellent adhesion to plastic and metal. Thixotropic for controlled application. Resistant to hydrolysis (85°C / 85% RH).							2 h at 80°C	
ELAN-Tron® U 596LV Black Resin	Unfilled polyurethane resin system. Low application viscosity.	800 - 1500	100 : 29	<-60°C	40 - 50 A	n.a. / 300	5 - 7	72 h at 25°C	130°C
ELAN-Tron® UH 510S Hardener	Designed for automotive applications. Flexible to -40°C or below.		100 / 20	, 55 5				or	
LEAN-11011 011 0100 Hardener	Resistant to hydrolysis (85°C / 85% RH).							2 h at 80°C	
ELAN Trans U COCO Blank Basin	Unfilled polyurethane resin system. Flexible to -40°C or below.	4000 - 7000	100 : 20	<-60°C	55 - 65 A	n.a. / 310	9 - 13	72 h at 25°C	150°C
ELAN-Tron® U 6250 Black Resin	Good high temperature stability up to 150°C.	4000 - 7000	100 . 20	₹-60 C	55 - 65 A	11.a. / 310	9-13	72 11 at 25 C	150 C
ELAN-Tron® UH 510S Hardener								2 h at 80°C	
						10.17			
ELAN-Tron® U 6592 Black Resin	Filled polyurethane resin system. Flexible to -40°C or below. Thermal shock resistant (>10 cycles -55 to 155°C).	5000 - 10000	100 : 12.5	<-60°C	55 -65 A	n.a. / 245	45 - 80	168 h at 25°C	130°C
ELAN-Tron [®] UH 6592 Hardener	,							or	
								4h at 80°C	
ELAN-Tron® U 4106 Black Resin	General-purpose, filled polyurethane resin system. Flexible.	2000 - 3000	100 : 33.3	5 - 10°C	75 - 85 A	135 / 280	30 - 50	168 h at 25°C	130°C
ELAN-Tron® UH 510S Hardener								or	
								4 h at 80°C	
ELAN-Tron® U 6752 FR White Resin	Filled polyurethane resin system. Low shrinkage. Excellent thermal	3000 - 5000	100 : 15	<-20°C	70 - 90 A	55 / 160	3 - 7	72 h at 25°C	130°C
ELAN-Tron® UH 510S Hardener	conductivity. Flame retardant per UL 94 V0. Flexible to -20°C.							or	
								2 h at 80°C	
ELAN-Cast® E 471-5LL FR Black Resin	Two-component, filled epoxy resin system. UL System listed. UL 94	2000 - 3000	100 : 15	48 - 53°C	75 - 85 D	40 / 195	450 - 500	168 h at 25°C	130°C
ELAN-Cast® C 471-5LL Hardener	V-0 listed. Enhanced chemical resistance with low stress, room temperature / low heat cure.							or	
	temperature / fow fical cure.							4 h at 80°C	
Bectron® PK 4340 Resin	Black, single-component, flexible polyurethane resin system. For	8000 - 11000	_	<-50°C	60 - 80 A	n.a. / 200	3 - 7 at 80°C	60 - 70 m at 80°C	130°C
Dectron PK 4340 Resin	selective coating of SMD and other sensitive components on	0000 3 1 1000		Q=30 G	00 - 00 A	11.a. / 200	0 - 7 at 60 C	50 - 70 III at 60 C	130 0
	printed circuit boards and ceramic substrates. Excellent thermal cycling performance from -60°C to +125°C. Used as dam in dam-and								
	fill application.								
Bectron [®] PK 4332 Resin	Black, single-component, very flexible polyurethane resin system.	4500 - 6500	-	<-60°C	25 - 45 A	n.a. / 200	10 - 15 at 80°C	70 - 90 m at 80°C	130°C
	For selective coating of SMD and other sensitive components on printed circuit boards. Also used as a casting resin for electronic								
	components and sensors. Excellent thermal cycling performance								
	from -60°C to +125°C.								
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Alternate cure schedule may be possible for your application. Consult with your ELANTAS PDG representative.

For More Information Ask For Our Technical Data Sheets.

ELANTAS PDG, Inc.

ELANTAS Electrical Insulation

Around the world, ELANTAS Electrical Insulation companies are respected as market leaders in the development and manufacturing of impregnating resins (varnishes), wire enamel, potting compounds and casting resins for a number of electrical, industrial, aerospace and civil applications. No matter what your challenge, be assured that ELANTAS Electrical Insulation products will meet your most demanding need

ELANTAS PDG, Inc.

Today, ELANTAS PDG, Inc. is recognized as the premier global supplier of specialty polymers for the electrical and electronic industries. ELANTAS PDG, Inc. is a member of ALTANA's ELANTAS Electrical Insulation Division based in Wesel, Germany.

With the support of ALTANA and by working with other ALTANA divisions, we offer a unique global approach to research, manufacturing and service that translates into more creative solutions, dependable supply and consistently high quality.

Many ELANTAS PDG, Inc. products are recognized as components of electrical insulation systems in accordance with UL 1446. ELANTAS PDG, Inc. is registered to ISO 9001 and ISO/TS 16949.

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ELANTAS PDG, Inc. headquarters in St. Louis, Missouri

ELANTAS Electrical Insulation companies are strategically located throughout the world to meet the primary insulation, secondary insulation and electronic and engineering materials needs of our customers.

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