ELANTAS
Electrical Insulation

Technical Data Sheet
Electronic and Engineering
Materials

Pedigree 300 LV Low Odor Polyester Resin

Two Component Flexible Resin

ELANTAS PDG, Inc.
5200 North Second Street
St. Louis, MO 63147
USA
Tel +1 314 621-5700
Fax +1 314 436-1030
info.elantas.pdg@altana.com
www.elantas.com

A member of ALTANA

ELANTAS
Electrical Insulation

Description
The Pedigree 300 LV is a two component room temperature curing resin system. Its flexibility makes it an excellent choice for potting.

Uses
- Potting and sealing of electrical and electronic equipment

Cured Properties
The Pedigree 300 LV is a highly flexible polyester resin system. It has excellent thermal shock resistance.

Features and Benefits
- Flexible
- Can be highly filled for enhanced thermal conductivity
- Suitable for use up to 180°C

Application Methods
- Vacuum potting

Storage/Shelf Life
This resin and hardener must be stored between at 25°C in a dry controlled environment out of direct sunlight. This material should be suitable for use stored under these conditions in the original sealed containers for three (3) months from the date of shipment. Failure to store this product as recommended above may lead to deterioration in product performance and invalidate shelf life.

Properties of Material Supplied

Test	***Value***		***Units***
	300 LV	***MEK Peroxide***	
Viscosity - 20 rpm – 25°C (77°F) (ASTM D2196)	100 – 200	15 - 20	Cp
Weight per gallon @ 25°C (77°F) (ASTM D3056), typical	8.3 – 8.6	9.7	Pounds
Flash Point (ASTM D93)	88	>180	°F
Mix ratio (pbw)	100	1	

ELANTAS
Electrical Insulation

TYPICAL PROPERTIES

Properties of Material Supplied – mixed

Test	*Value*	*Units*
Gel Time at 25°C (150 grams)	35 – 50	minutes

Mechanical Properties – Specimens cured 7 days at 25°C (77°F)

Test	*Value*	*Units*
Tensile Strength (ASTM D638)	22	Pounds/square inch
Elongation (ASTM D2519)	66	%
Hardness, Shore A (ASTM 2240)	30	
Glass Transition Temperature	-5	°C (°F)
Coefficient of Thermal Expansion	200	ppm/°C

Electrical Properties

Test	*Value*	*Units*
Dielectric Strength – AS MADE (ASTM D149)	350	Volts/mil
Dielectric Strength after 24 hours in water (ASTM D149)	250	Volts/mil
Film thickness	85	Mils
Dissipation Factor @ 25°C (77°F) 1 kHz (ASTM D150)	0.03	
Dielectric Constant @ 25°C (77°F) 1 kHz (ASTM D150)	5.4	

Comment [MW1]: 5-9-08: Added disclaimer to shelf life./mw

THE RECOMMENDATIONS, TEST RESULTS AND SUGGESTION ARE OFFERED HERIN AS A GUIDE IN THE USE OF THESE MATERIALS AND ARE NOT A GUARANTEE TO THEIR PERFORMANCE INASMUCH AS THE COMPANY HAS NO CONTROL OVER THE USE TO WHICH OTHERS PUT THE PRODUCT

The above properties are typical values and are not intended for specification use.

ELANTAS PDG. Inc. warrants the chemical composition of its products within stated tolerances, but does not guarantee that a product will be appropriate for any particular application. Any recommendation, performance of tests or suggestion is offered merely as a guide and is not a substitute for a thorough evaluation by the manufacturer. No representative of ELANTAS PDG. Inc. has the authority to offer a warranty that a product will perform satisfactorily in manufacturing a product and no such representation should be relied upon.

ELANTAS PDG. Inc.DISCLAIMS ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF MERCHANTABILITY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE CHEMICAL SPECIFICATIONS AND TOLERANCES STATED. ELANTAS PDG. Inc. LIMITS ITS LIABILITY TO REPLACEMENT OF PRODUCT THAT IS OUT OF SPECIFICATIONS WHEN DELIVERED AND EXCLUDES ANY AND ALL CONSEQUENTIAL DAMAGES AND INCIDENTAL DAMAGES.

ANY CLAIMS FOR BREACH OF WARRANTY MUST BE BROUGHT WITHIN ONE YEAR OF THE DATE OF SALE. ELANTAS PDG. Inc.'S OFFER TO SELL PRODUCTS IS LIMITED TO THE TERMS, DISCLAIMERS AND LIMITATIONS EXPRESSED HEREIN AND PD GEORGE OBJECTS TO ANY TERMS THAT VARY FROM OR ARE INCONSISTENT WITH THESE TERMS, DISCLAIMERS AND LIMITATIONS. THESE TERMS MAY NOT BE VARIED BY ANY COURSE OF PERFORMANCE OR ORAL AGREEMENT.