



ELANTAS PDG, Inc.

S200 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



Pedigree[®] 600 S QC

Product Description

Pedigree[®] 600 S QC is a 100%-reactive, unsaturated polyester resin in styrene monomer. It requires the addition of a peroxide catalyst for proper cure.

Areas of Application

Impregnation of motor windings including stators and high-speed armatures

Features and Benefits

- Chemically promoted for very short gel time and fast cure
- Low viscosity
- High heat distortion temperature
- High bond strength at elevated temperature

Transportation / Storage

Store below 25°C / 77°F 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 six (6) months from the date of shipment.

Failure to store this product as recommended above may lead to deterioration in product performance.

Keep containers tightly sealed to minimize evaporation. Refrigeration is recommended for long term storage.

Mix product thoroughly before use

See Technical Bulletin TI-4001 for tank maintenance instructions

Health / Safety

Refer to the Material Safety Data Sheet.

Application Methods

Trickle

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	235 - 305	cP
Gel Time	100°C / 212°F	5 – 10 ^[1]	minutes
Catalyst	1% by weight	ELAN-Plus™ C 8 Catalyst	
Viscosity Reducer		ELAN-Plus™ BS-215 Diluent	
Gel Time Adjuster		ELAN-Plus™ BS-6440 Inhibitor	
Weight per Gallon	25°C / 77°F	9.15 – 9.45	pounds
Flash Point	ASTM D93	30 86	°C °F

^[1] Gel time may drift during shipment and storage. Refer to Technical Bulletin TI-4001 for adjustment instructions.



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Curing Schedule

Preheat part to 105 - 125°C / 225 - 250°F

Apply resin by trickle. Cure at 163 – 177°C / 325 – 350°F for 20 minutes

Cure schedule is based on time after unit reaches specified temperature

Typical Mechanical Properties

Property	Conditions	Value	Units
Helical Coil Bond Strength ASTM D2519 over MW 35	25°C / 77°F 150°C / 302°F	62 20	pounds pounds
Hardness	Shore D	84	

Typical Electrical Properties

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149 – 1.5 mils	3400	volts/mil
Dielectric Strength	ASTM D149 – 1.5 mils After 24 hours in water	3800	volts/mil

UL Recognized Insulation Systems (ELANTAS File E87039)

Thermal Class	System
Class 130	PDG 1, 2, 6, 12, 106, 107, 110, 111
Class 155	PDG 3, 9, 102, 108, 86-155-1
Class 180	PDG 14, H-1, 91-180-1, 86-180-5
Class 200	PDG 7, 10
Class 220	PDG 15
Class 240	PDG 16

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 user. 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.