ABR ORGANICS LIMITED

(An ISO 9001:2015 Certified Company) A-3, Sri Madhava Apartments, H.No.2-2-23/41/4&5, Bank Colony, Bagh Amberpet, Hyderabad – 500 013. Telangana, INDIA Tel: 0091-40- 2742 6058 ; Tele Fax: 0091-40-2742 6059 E-mail: <u>info@abrorganics.com</u> ; <u>knaveenc@abrorganics.com</u>

PRODUCT NAME	: ABRON PGR 1350
PRODUCT TYPE	: PHENOL FORMALDEHYDE RESOL TYPE RESIN

ABRON PGR 1350 resin system has been developed for use in the manufacture of pultruded composites. ABRON - PGR 1350 is resol type phenol formaldehyde resin with very good wettability. With the addition of 6 - 9 % of the catalyst there is an enhancement of processing speed and the improvement of mechanical properties of the pultruded part. The developed catalyst is easy to handle and has adequate shelf life.

TYPICAL CHARACTERISTIC PROPERTIES OF COMPOSITES:

- Good flame resistance.
- > Low smoke properties.
- \succ High strength and modulus properties.

ABRON PGR 1350 is compatible with glass roving and mats. This system can be used on standard polyester pultrusion processing equipment, without any changes in the system itself. The die temperatures should be maintained in the range of $180 - 230^{\circ}$ C.

The speed of pultrusion would depend upon the shape and thickness of the pultruded profile.

Technical	Specifications	of	ABRON	PGR	1350	Resin:
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APPEARANCE	: BROWN OR AMBER COLOURED
STATE	: Amber coloured LIQUID
SPECIFIC GRAVITY	: 1.10 - 1.25
VISCOSITY AT 30° C	: 1,500 - 2,500 CPs
SOLID CONTENT, %	: 72.0 - 78.0
рH	: 7.5 - 8.5

Technical Specifications of the Catalyst System:

APPEARANCE	: Clear Amber Liquid
SOLID CONTENT	: 68 - 73 %
VISCOSITY	: 800 - 1500 cPs at 30° C
SPECIFIC GEAVITY	: 1.2 - 1.3

The product information or recommendations offered, either in writing or verbally, is a part of service information to our customers, and these are based on test results carried out by us based on the current state of our knowledge. Customers are requested to independently evaluate the suitability of the ABROL products for each application. The information provided is for the use by persons having technical skill, at their discretion & risk and no liability can be accepted in respect of information provided and no warranties are intended as the condition of application are beyond our control