

# **ABR ORGANICS LIMITED**

( An ISO 9001:2015 Certified Company )

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

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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.
- 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<sup>0</sup> C.

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

**Technical Specifications of ABRON PGR 1350 Resin:**

<b>APPEARANCE</b>	<b>: BROWN OR AMBER COLOURED</b>
<b>STATE</b>	<b>: Amber coloured LIQUID</b>
<b>SPECIFIC GRAVITY</b>	<b>: 1.10 - 1.25</b>
<b>VISCOSITY AT 30<sup>0</sup> C</b>	<b>: 1,500 - 2,500 CPs</b>
<b>SOLID CONTENT, %</b>	<b>: 72.0 - 78.0</b>
<b>pH</b>	<b>: 7.5 - 8.5</b>

**Technical Specifications of the Catalyst System:**

<b>APPEARANCE</b>	<b>: Clear Amber Liquid</b>
<b>SOLID CONTENT</b>	<b>: 68 - 73 %</b>
<b>VISCOSITY</b>	<b>: 800 - 1500 cPs at 30<sup>0</sup>C</b>
<b>SPECIFIC GEAVITY</b>	<b>: 1.2 - 1.3</b>