

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: info@abrorganics.com ; knaveenc@abrorganics.com

PRODUCT TYPE : POLYIMIDE RESIN
Two component system

SPECIFICATIONS OF ABRON BR732 - A

1. State : Fine Powder
2. Color : Light yellow / cream
3. Melting Point : 150 - 160⁰ C
4. Bulk Density : 0.2 - 0.3 gm /cc

SPECIFICATIONS OF ABRON BR732- B

1. State : Viscous Liquid
2. Appearance : Clear Brown solution
3. Specific Gravity : 1.04 - 1.09
4. Odor : Mild Phenolic
5. Viscosity : 13000 - 35000 cps

APPLICATIONS:

This resin system offers excellent thermal stability & performance at elevated temperatures (> 300°C). The laminates made using ABRON BR732 system exhibit outstanding toughness & moisture resistance. This resin system can be used for the manufacture of composites where high temperature resistance & good mechanical properties at elevated temperatures are desired.

This resin can be used for advanced composite applications by prepregging technique. The resin system can be melt processed and can be used as a high temperature structural adhesive. The prepregs can be molded into laminates that find application in printed circuit boards. The resin system is also amenable for polar & filament winding applications. ABRON BR732 System also finds application as thermal resistant coatings.

Properties of ABRON BR-732 Laminates

<u>TENSILE PROPERTIES</u>	<u>TEMPERATURE</u>	<u>VALUES</u>
Strength, psi: Dry" Wet" Dry Wet Dry	Room temperature 148 ⁰ C 240 ⁰ C	13,600 12,800 10,100 6,900 10,400
Modulus, psi: Dry Wet Dry Wet	Room temperature 148 ⁰ C 204 ⁰ C	5,64,000 5,49,000 4,12,000 3,12,000 3,94,000
Elongation, % Dry Wet Dry Wet	Room temperature 148 ⁰ C 204 ⁰ C	3.00 3.40 3.05 3.20 4.60
Water pickup, %		1.50
Compression properties	Room temperature	-
Yield strength, psi Ultimate strength, psi Modulus, psi Compression at yield, % Compression at failure, %		30,400 - 3,60,000 13.60
T_g,⁰C (by Dynamic Thermal Analysis (DMA)) Fractural energy, in.-lb/in. ²	Dry Wet	310 297 1.20

"Curing: 1hour at 180⁰C and 2 hours 200⁰C and 6 hours at 250⁰C.

"Wet: Samples evaluated after exposure to 100% humidity at 38⁰C for 2 weeks.

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.