

TECHNICAL DATA SHEET

TRIPOR 224 (liquid version of TANCAST 12)

High Density 192 kg/m³ Polyurethane Foam System

TRIPOR 224 is a 192 kg/m³ high density two-part closed cell rigid foam system which may be used to manufacture mouldings. It is also suitable for structural infill of fibreglass components and relies on the thorough mixing of two low viscosity liquids by either hand or machine mix techniques. Contains no CFC's or HCFC's and therefore has an Ozone Depletion Potential (O.D.P.) of zero.

APPLICATIONS

- Used by the Engineering business for CNC machining
- Can be carved easily enabling small to large prototypes to be produced.
- Used in the model making industry.
- Structural GRP manufacturing, including components, sections and shaping.
- Slow reacting, good to larger mouldings & castings.

PROCESSING

TRIPOR 224 is suitable for the manufacture of structural rigid foam. It is slow reacting relying on the thorough mixing of two low viscosity liquids by pour in place hand or drill mixing processes.

- In hand mixing the Component A should be pre-mixed for at least one minute to aerate it, before mixing with the Component B. After mixing, the foam should be immediately transferred to the mould or cavity to be filled. Pouring should be finished before there is any significant amount of expansion.
- Best results are obtained if the foam rise is restricted, but it may be free risen if necessary.
- The foam should be processed between the temperatures of 18 – 23 °C, best results are achieved if the surfaces in contact with the rising foam are at a temperature of at least 25 °C.

TYPICAL PROPERTIES


Appearance	Tripor 224 Component A Tripor Component B	Clear, hazy straw like liquid Dark brown liquid
Density	Tripor 224 Component A Tripor Component B	1.06 g/cm ³ 1.23 g/cm ³
Mix ratio (w/w) – parts by weight	Tripor 224 Component A Tripor Component B	100 grams 115 grams
Cream Time	172 g at 20 °C	40 - 50 seconds
String Time	172 g at 20 °C	165 - 190 seconds
Rise Time	172 g at 20 °C	220 - 240 seconds
Foam Density	Free rise	192 kg/m ³
Thermal Conductivity	Initial at 10 °C	0.038 W/m ² K
Compressive Strength at 10% Compression	kPa	~3340 kPa

STORAGE & HANDLING


It is extremely important that the drums should be re-sealed immediately after use to prevent the entry of moisture which will adversely affect the resultant foam. The shelf life of the materials is five months when stored in sealed drums within the recommended temperature range of 10 - 30°C, but users are recommended not to hold in stock longer than necessary.

PLEASE SEE THE SEPARATE SAFETY DATA SHEETS BEFORE USING THESE PRODUCTS.

The data contained in this sheet is to our knowledge true and accurate, but recommendations are made without guarantee or warranty since application and conditions are outside our control. It is suggested that users should carry out their own tests to ensure 'Tripor 224' meets their requirements.

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