

Technirez® FRR 926

Description:

Technirez FRR926 is a halogen free, phosphorous containing flame retardant epoxy resin. Technicure FRR 926 can be blended with other epoxy resins to obtain desired phosphorous content and to optimize thermal and mechanical properties of a cured formulation. Technirez FRR 926 resin can be used in one-part and two-part epoxy resin based formulations. Resins formulated with FRR926 can be easily designed to pass the requirements of UL94 V0 and FAA flame standard, FAR 25.853, without any additional flame retardants or additives.

Advantages:

- Reactive
- Can be blended with other epoxy resins
- Maintains heat resistance and physical properties
- Can be used with typical epoxy curing agents in one part and two part formulations

Typical Applications:

- Composites such as pre-pregs, electrical laminates vacuum impregnation, and tooling
- Adhesives for automotive, aerospace and electronics applications

Handling Precautions:

Refer to the product Safety Data Sheet

Typical Properties:

Appearance:	High viscosity clear liquid
Viscosity @ 60°C:	40 Pa. S
EEW:	470
Phosphorous content:	6.4%

Typical Formulations (by wt.):

Technirez® FRR 926	40
Liquid epoxy resin (EEW 190)	60
Technicure D-10 ¹	8

% P content	2.4
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Reactivity by DSC²

Onset Temp., °C	154
Peak Temp., °C	172
Heat of Reaction, J/g.	313
Glass Transition Temp., °C	112

Cure Schedule: 1hr @ 150°C + 1hr @ 160°C

Test method³ UL94 V-0

Results	Pass
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1. Dicyandiamide
2. Scan rate, 10°C per minute
3. Sample size 12 cm X 1.3 cm X 0.3 cm

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