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SHELF LIFE AND STORAGE PYRE ML® ENAMEL AND VARNISH

Industrial Summit Technology offers a complete product line of polyimide coatings for high temperature wire enamels, binders and other coating applications. It is supplied as a polyamic acid, a polyimide precursor, in solution. Exposure to heat results in its conversion to the final polyimide film or coating.

The viscosity of polyimide enamels and varnishes, as manufactured, is not stable and changes with time. After manufacture, the viscosity will gradually drop to about 2/3's of its original viscosity and then will increase until it finally gels. *Pyre ML is best stored refrigerated* as higher temperatures decrease the time for gelation. Gelation is likely to occur in approximately 14 days at 120°F (49°C), 30 days at 100°F (38°C) and 90 days at 77°F (25°C). At 40°F (4°C) it will not gel in a year.

Product shelf life is the period of time the PYRE ML product is expected to stay within the limits of its respective product specification. The shelf life of PYRE ML products is 3 months from date of shipment when stored at 40 °F (4 °C) or below.

Enamel or varnish stored for longer periods of time than 3 months or at higher temperatures should be usable if still within specification limits for viscosity and solids. If the viscosity has advanced above its specification limit it may still be usable if it can be diluted to reduce the viscosity into its specification range while still remaining within the solids specification limits.

PYRE ML enamels and varnishes are hygroscopic due to the N-methylpyrrolidone used in the solvent system and will absorb moisture from the atmosphere. Absorbed moisture can lower the resin's molecular weight by hydrolysis which may lower the viscosity and effect the coating quality. Refrigerated containers should be allowed to reach room temperature before opening to avoid moisture from condensation.

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