

Thermoset Laminate Life Expectancy

Thermoset laminate materials are designed specifically for long life in high stress applications and environments. Röchling Industrial Cleveland produces products intended to remain in service decades after production. To ensure this performance, Röchling Industrial Cleveland has adopted the highest standards for raw materials in the industry, processes material in a tightly controlled ISO certified manufacturing environment, and provides follow-up technical support to our customers. Except in the case of extreme storage conditions, these materials in their fully cured form are not subject to a shelf-life restriction. Should you need to discuss a particular application, please contact a Röchling Industrial Cleveland technical professional for advice and guidance.

Optimum Storage Conditions

Röchling Industrial Cleveland recommends that cured laminate material, including sheets, tubes, and molded shapes be stored on flat surfaces in temperature and humidity controlled indoor locations to prevent subtle changes due to temperature and humidity fluctuations. Optimum storage conditions are ambient temperatures of 72°F +/- 9°F (25°C +/- 5°C) and 50% +/- 10% relative humidity, kept in original containers to reduce the exposure to ultraviolet light. Under these conditions all properties should remain nearly constant for extended storage periods.

Acceptable Storage Conditions

Acceptable storage conditions are temperatures of 40°F - 150°F (4°C - 66°C) and 0% - 100% humidity in warehouse locations. Under these conditions, with daily temperature and humidity fluctuations expected, Röchling Industrial Cleveland cannot warranty fully cured parts physical and electrical properties for a period of more than 90 days.

Ultraviolet Light Exposure

Ultraviolet light exposure should be minimized to prevent the breakdown of the organic resins used to produce these laminates. All laminates will change colors after long-term exposure to ultraviolet light. These changes are primarily in the surface layers of the laminates. Röchling Industrial Cleveland cannot warranty the color stability over long storage periods of fully cured laminates because of the natural color changes that occur. If the laminates are to be used for extended periods of time outdoors, we strongly recommend applying a suitable coating to protect it from ultraviolet light.