

POKALON®

MOST IMPORTANT PRODUCT FEATURES

- Thickness range: 6 µm - 180 µm
- Colors: colorless, yellow and green
- Glass temperature: up to 187 °C
- Very high tear and tear propagation strength
- Excellent dielectric strength

MATERIAL

POKALON® is cast from polycarbonate (PC) using the solvent casting process. For some special types, we use PC that is particularly heat resistant. Our product portfolio contains non-stretched films with a thickness range of 6 µm to 180 µm, additional thicknesses can be offered upon request.

MECHANICAL PROPERTIES

POKALON® has high rigidity and strength and has high impact resistance across a broad temperature range. This film has very high tear and tear propagation strength and is break and splitter resistant. Due to the solvent casting process, the mechanical properties are virtually identical in the longitudinal and lateral directions. POKALON® has very good thermoforming properties.

THERMAL PROPERTIES

The glass transition temperatures of POKALON® films are, depending on type, between 155 °C and 187 °C. Some POKALON® types have a heat deflection temperature of up to 180 °C (Vicat).

OPTICAL PROPERTIES

POKALON® films are available with glossy surface structure or a matte surface structure on one or both sides. Glossy versions are highly transparent and exhibit a high optical purity (speck and gel-free) and low retardation.

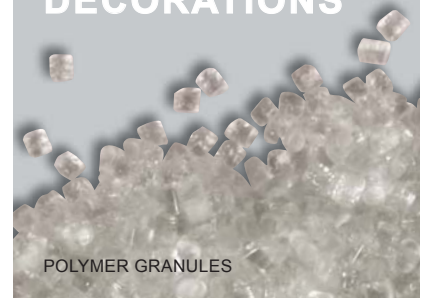
ELECTRICAL PROPERTIES

The dielectric loss factor of POKALON® is low and exhibits, like the dielectricity

OUR MARKETS

Our broad range of products and ability to realize custom solutions allow us to serve a wide variety of industries and markets:

- DIAGNOSTICS
- ELECTRICS
- ELECTRONICS
- DISPLAYS
- ACOUSTICS
- LABELS
- GRAPHICS
- PRINT
- 3D GLASSES
- OPTICS
- DECORATIONS



POKALON®

constant (relative permittivity), a low temperature dependence. The insulation properties are very good even at higher temperatures and the dielectric strength of the thin films is outstanding. Due to its very low moisture absorption, the electrical properties are only marginally influenced by the moisture content of the material.

CHEMICAL PROPERTIES

POKALON® is resistant to oil, grease, benzines, aliphatic hydrocarbons, as well as most alcohols. POKALON® is not resistant to chlorinated hydrocarbons, ketones, aromatic solvents, and alkalis. In these substances, the film will be attacked or will dissolve.

WATER ABSORPTION

Due to its very low moisture absorption of approximately 0.2 %, the film retains its dimensions so the film properties are only marginally influenced.

FURTHER PROCESSING

POKALON® can be effectively adhered with the aid of selected solvents, solvent-based adhesives, dispersion adhesives, and with the hotmelt process. It can be welded using the thermal impulse method, ultrasound, or high frequency, among other methods.

POKALON® can be printed with many different printing methods. The film can be effectively marked with etching pens and inks. The matte side of the film is resistant to erasing and smearing.

The film is thermoformable and can be coated with common high-vacuum methods.

COMPLIANCES

