

LEXTRAN

UV Protection – Clear Advantage



electroSPELL

Lextran is a UV protection acrylic coating that is more than 99% opaque to ultraviolet radiation while at the same time being more than 99% transparent to visible light. Lextran confers excellent UV blocking to surfaces it is coated on; providing simultaneous protection from UV-A and -B radiations. Due to its high optical transparency Lextran does not have a tint, making it suitable for a range of applications where perfect optical clarity is required.

Lextran is based on a flexible molecular switch which is a UV-activated photon-to-phonon converter. The material efficiently absorbs UV photons with wavelengths below 400 nm and converts the energy to molecular motion that gets dissipated as heat. This process takes place through flexible bonds that selectively resonate at UV wavelengths, degrading UV photon's energy into dissipated heat.

Lextran is available as a solution in Ethyl Lactate which is an environmentally-friendly solvent. It can be applied on various surfaces using any one of a number of different coating techniques. For microelectronic and optoelectronic device or wafer level applications, spin coating (generally in the range of 1000 to 3000 RPM) is usually the best approach. For the preparation of UV blocking glass or plastic panels, spraying with a pneumatic sprayer is suitable but roller coating is also possible. Lextran used for museum, galleries and other art protection applications can be either applied with a paint roller or a K-bar coater.

Lextran comes in a 250 ml spray bottle. Larger quantities are available in alternate packaging. For more information, see the material safety data sheet (MSDS) for Lextran or contact ElectrosPELL or its distributors.

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Disclaimer: Information provided here is on a no liability basis. It is the user's responsibility to verify that this product is suitable for any intended application.

