Technical Data Sheet

Progress beyond

Fluorolink® MD700

Perfluoropolyether

Fluorolink® MD700 is a bifunctional PFPE-urethane methacrylate.

When used as the main component of a photocurable formulation, **Fluorolink® MD700** is suitable as an oligomer for producing low optical loss polymeric waveguides and cladding of optical fibres.

Fluorolink® MD700 can also be used as a surface modifying additive in acrylic UV-curable systems: in fact, thanks to its tendency to migrate to the air-coating interface, **Fluorolink® MD700** imparts outstanding water/oil repellency and antifingerprint properties.

Property	Typical Value	Unit
Functional groups	Urethane methacrylate	
Dynamic viscosity at 20 °C	430	cP
Fluorine content	52	% w/w
Average molecular weight	~ 2,000	amu

UV curing

When used as an additive at low dosage (0.1 – 0.5 % w/w) into a UV-curable formulation, **Fluorolink® MD700** does not require special curing conditions, while UV-curing under nitrogen is recommended whenever the **Fluorolink® MD700** is used as the major component of the photocurable formulation.

The recommended photo-initiators are based on α-hydroxyketones and acyl-phosphineoxides, whose combination is synergic, at a 1-2 % w/w level.

Solvent solubility

For solution processing of **Fluorolink® MD700**, figure 1 shows the product solubility in selected solvents.
We recommend that solubility of each batch be checked upfront before starting any solution process.

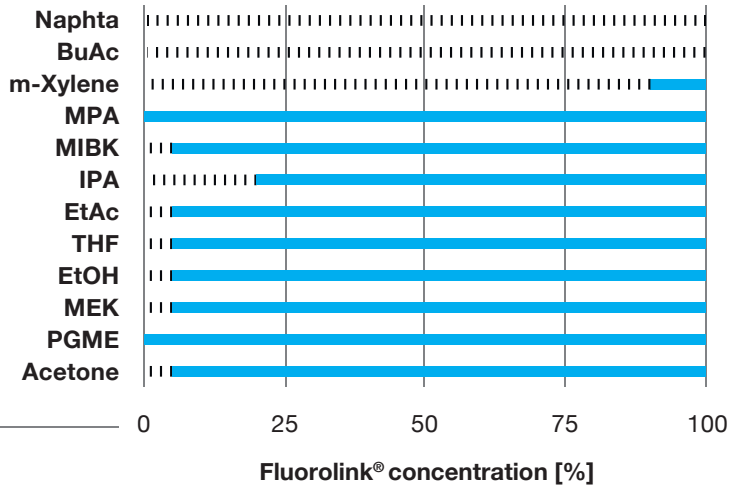

Figure 1

incompatibility range
solubility range

Shelf-life

Even if the product shows an excellent shelf-life, it is recommended to avoid long and direct exposure to strong light sources.

塑料专家 www.ponci.com.cn/wxb/ +13538586433 +18816996168