

Fomblin® MD40

Perfluoropolyether

Fomblin® MD40 is a bifunctional PFPE-urethane methacrylate.

Fomblin® MD40 is particularly suitable to be used as the main component of a photocurable formulation, imparting outstanding antisticking properties, low surface energy and excellent chemical resistance, to the cured material.

Property	Typical Value	Unit	Test Method
Functional groups	Urethane methacrylate		
Dynamic viscosity at 20°C	695	cP	
Fluorine content	54	% w/w	
Average molecular weight	~4,000	amu	

How to use

Fomblin® MD40 can be readily blended with conventional photoinitiators such as Darocur® 1173 (available from BASF); it is recommended to UV-cure the mixture of Fomblin® MD40 and the photoinitiator under nitrogen atmosphere or alternatively in such conditions to minimize the oxygen inhibition.

Due to its high fluorine content, Fomblin® MD40 has a poor compatibility with hydrogenated acrylic monomers and reactive diluents.

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

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