

UM-470

Cationic UV Monomers

Characteristic

point at curing cross-linking degree for cationic resins。

Moderate curing speed, good substrate wettability and easy construction

Colorless and transparent, no pungent odor

Excellent film resistance to water and chemicals

Viscosity at 25°C,cPa.s	150
MW(GPC)	270
Boiling Point°C	225
Colour, Gardner	1
Fusion Point °C	-22
Refractive Index	1.51
Specific Gravity	1.10

APPLICATION

UM-470 monomer exhibits slow curing, low shrinkage, high cross-linking strength and hardness in cationic curing systems. In ink coating applications, it is a very direct and effective way to improve chemical resistance and long-lasting water resistance by enhancing cross-linking strength. Very low shrinkage does not have a negative impact on substrate adhesion, which is a critical requirement in 3D printing or material composite molding applications. UN470 monomer can be cured well when combined with Uyracure series high-efficiency initiators under mercury lamp irradiation conditions. However, it is very difficult to cure using LED long-wave light source alone. It is recommended to use it with products with faster curing reaction such as 9100A or 9100B.

feature	UM440	UM460	UM470	UM480
Viscosity	3	5	8	7
hardness	4	5	8	7
adhesion	6	8	6	6
Flexibility	4	5	5	8
Cure speed	8	6	5	5

0: means low 9: means high