

Technical data sheet

MPD Industries P Ltd.

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Trimethylolpropane Triacrylate

Description

UVP 0301 is an aliphatic trifunctional acrylate of low viscosity and excellent crosslinking reactivity. In comparison to other trifunctional acrylates, it is an effective reactive diluent with excellent solvency and viscosity reducing characteristics in UV/EB curable formulations based on epoxy,

Product Highlights

Excellent chemical resistence

Excellent hardness

Excellent abrasion resistence

Product Highlights and properties

UV/EB curable coatings and Varnishes UV Industrial Graphic arts application.

UV Screen Printing Inks

UV Lithographic Printing Inks

Other UV printing Inks

Film Studies **Aluminum**

Scuff Resistence	Good	
Gloss 60	100	
Pencil Hardness	6 H	

Chemical Resistence 100+(MEK Double Rubs)

Conical Mandrel < 0.5*

Cure Conditions RDS Rod #3

0.27 mils wet film thickness

6% Benzophenone 2% TEOA

100 Ft/Min one 300 watt/inch UV lamp

UVP 0301 Typical Physical and Chemical Properties

Appearance Functionality	Clear Pale Yellow Liquid 3
Colour Gardner Max.	1
Acid Value Max.	1
Viscosity Cps @ 25 C mPa.s	70 - 150
Refractive Index	1.4723
Tg C	62
Molecular Weight	296
Density g/cm3	1.108
Surface Tension Dynes/Cm	36.8

Storage And Handling

UVP 0301 may crystallize or stratify if subjected to cold or freezing conditions. Allow to warm to room temperature and mix well before using. Storage must be in a cool, shaded, well ventilated and dry area away from sources of direct heat and sunlight. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 12 months. Additional handling information is contained within the material safety data sheet which is available upon request.

Packing Codes

PAC1013 Epoxy Coated Steel Closed Head drums 200 Kg

* Special packing also available on request

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Formulation Suggestions for UVP 0301

Multifunctional acrylates such as UVP 0301 enhance the hardness, chemical resistance and cure speed of UV/EB curable coatings on a variety of substrates, such as vinyl and LDPE as well as rigid, unyielding surfaces like wood.

PVC Formula Components	Sheeting	LDPE	Wood	
Difunctional Epoxy Acrylate		40	40	
Urethane Acrylate	26			
Trimethylol Propane Triacrylate	30	21	15	
1,6 Hexane Diol Diacrylate	16			
Bisphenol A (4EO) Diacrylate		10		
Ethoxylated(3) Phenol Monoacrylate	20	15		
Tripropyleneglycol Diacrylate			37	
Neopentylglycol (2PO) Diacrylate		10		
Amine Synergist	2		2	
Photoinitiator BDK			4	
Photoinitiator Benzophenone	2		2	
Photoinitiator 73	4		4	
Properties				
Cure Speed	50	100	100	
Scuff Resistence	Good	Good	Good	
Gloss 60	Good	Good	Good	
Adhesion (# 600 Cellotape)	100%	100%	100%	
Solvent Resistence (Mek Double Rubs)	100+	100+	100+	
Pencil Hardness	5H	6H	6H	
100 100 Good Good Good 100% 100% 100+ 100+				
Cure Conditions RDS Rod # 3				
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one 300 watt/inch UV lamp