



HEALY GROUP

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Healy Group Europe B.V.

Acrylate Monomers (UV Curable materials)

Monomers

Monofunctional Acrylates

OPPEA o-Phenylphenol (EO) acrylate	High refractive index, low shrinkage, good adhesion, low volatility
OPP(EO) ₂ A o-Phenylphenol (EO) ₂ acrylate	High refractive index, low shrinkage, good adhesion
CTFA Cyclic-trimethylolpropane-formal acrylate	Good adhesion, good toughness, good abrasion resistance
BZA Benzyl acrylate	Good adhesion, low viscosity, high refractive index, low shrinkage
PHEA Phenol (EO) acrylate	Good adhesion, low shrinkage, high refractive index
PH(EO) ₂ A Phenol (EO) ₂ acrylate	Low volatility, good adhesion, low shrinkage
PH(EO) ₄ A Phenol (EO) ₄ acrylate	Low volatility, good adhesion, low shrinkage
THFA Tetrahydrofurfuryl acrylate	Good adhesion, low viscosity, good weatherability
NP(PO) ₂ A Nonyl phenol (PO) ₂ acrylate	Low odor, low volatility
NP(EO) ₄ A Nonyl phenol (EO) ₄ acrylate	Low skin irritation, low shrinkage, good flexibility
NP(EO) ₈ A Nonyl phenol (EO) ₈ acrylate	Low skin irritation, low shrinkage, good flexibility
EOEOEA Ethoxy ethoxy ethyl acrylate	Good flexibility, low shrinkage, good adhesion and dilution power
PBA Phenoxybenzyl acrylate	High refractive index, low shirinkage, good adhesion, low volatility
IOA Isooctyl acrylate	Good adhesion, low shrinkage, low viscosity

ODA	Good flexibility, low shrinkage, low viscosity
Octyldecyl acrylate	
IDA-C10	Hydrophobic, good flexibility, good adhesion
Isodecyl acrylate	
LA-C12,13	Good weatherability, good water resistance, good solvent resistance
Lauryl acrylate	
LA-C12	Good weatherability, good water resistance, good solvent resistance
Lauryl acrylate	
LA-C12,14	Good weatherability, good water resistance, good solvent resistance
Lauryl acrylate	
LA(EO) ₂ A	Good hydrophobic/hydrophilic balance, good weatherability
Lauryl (EO) ₂ acrylate	
C14A	Good weatherability, good water resistance, good solvent resistance
Tetradecyl acrylate	
C16A	Good flexibility, good weatherability, low skin irritation
Cetyl acrylate	
C16,18A	Good flexibility, good weatherability, low skin irritation
Cetyl acrylate	
STA-C18	Hydrophobic, flexibility, low volatility, low shrinkage
Stearyl acrylate	
C20A	Hydrophobic, flexibility, low volatility, low shrinkage
Icosyl acrylate	
BHA-C22	Excellent flexibility, low shrinkage, good water resistance
Behenyl acrylate	
BHA-C18,20,22	Hydrophobic, good flexibility, low shrinkage, good water resistance
Behenyl acrylate	
TMCHA	Good adhesion, low shrinkage, low viscosity
3,3,5-trimethyl cyclohexyl acrylate	
CA	OH functional, low odor, flexibility
Caprolactone acrylate	
CEA	Excellent adhesion, good flexibility, OH functional
2-Carboxyethyl acrylate	

Difunctional Acrylates

BPA(EO) ₃ DA Bisphenol A (EO)3 diacrylate	High refractive index, low volatility, good hydrophobic/hydrophilic balance
BPA(EO) ₄ DA Bisphenol A (EO)4 diacrylate	High refractive index, low volatility, good hydrophobic/hydrophilic balance
BPA(EO) ₈ DA Bisphenol A (EO)8 diacrylate	Low volatility, good flexibility, good adhesion, good hardness
BPA(EO) ₁₀ DA Bisphenol A (EO)10 diacrylate	Low volatility, good flexibility, good adhesion, good hardness
BPA(EO) ₂₀ DA Bisphenol A (EO)20 diacrylate	Low volatility, good flexibility, good adhesion, good hardness
BPA(EO) ₃₀ DA Bisphenol A (EO)30 diacrylate	Low volatility, good flexibility, good adhesion, good hardness
DPGDA Dipropylene glycol diacrylate	Low volatility, good dilution power, low viscosity
TPGDA Tripropylene glycol diacrylate	Low volatility, low viscosity, good dilution power
PPG400DA Polypropylene glycol 400 diacrylate	Good flexibility, low shrinkage, low skin irritation
PPG750DA Polypropylene glycol 750 diacrylate	Good flexibility, low shrinkage, low skin irritation
HDDA 1,6-Hexanediol diacrylate	Fast cure speed, low viscosity, excellent dilution power
HD(EO) ₂ DA 1,6-Hexanediol (EO)2 diacrylate	Good dilution power, good weatherability, fast cure speed
BDDA 1,4-Butanediol diacrylate	Low viscosity, low volatility, good weatherability
BPEFDA Ethoxylated bisphenol fluorene diacrylate(OPPEA 40%)	High refractive index, good hardness
BPF(EO) ₆ DA Bisphenol fluorene (EO)6 diacrylate	High refractive index, good elasticity
BPF(EO) ₁₀ DA Bisphenol fluorene (EO)10 diacrylate	High refractive index, good elasticity
BPF(EO) ₁₅ DA Bisphenol fluorene (EO)15 diacrylate	High refractive index, good elasticity
BPF(EO) ₂₀ DA Bisphenol fluorene (EO)20 diacrylate	High refractive index, good elasticity, good flexibility
BPF(EO) ₃₀ DA Bisphenol fluorene (EO)30 diacrylate	High refractive index, good elasticity, good flexibility
NPGDA Neopentyl glycol diacrylate	Low viscosity, fast cure speed, chemical resistance
NPG(PO) ₂ DA Neopentyl glycol (PO)2 diacrylate	Good flexibility, low skin irritation, good wetting

HPNDA Hydroxyl pivalic neopentyl glycol diacrylate	Low toxicity, good adhesion, good hardness
NDDA 1,9-Nonanediol diacrylate	Low volatility, low viscosity, excellent dilution power
TTEGDA Tetraethylene glycol diacrylate	Low viscosity, low volatility, good flexibility
PEG200DA Polyethylene glycol (200) diacrylate	Good water solubility, good flexibility, low shrinkage
PEG300DA Polyethylene glycol (300) diacrylate	Good water solubility, good flexibility, low shrinkage
PEG400DA Polyethylene glycol (400) diacrylate	Water solubility, good flexibility, low shrinkage, low skin irritation
PEG600DA Polyethylene glycol (600) diacrylate	Water solubility, good flexibility, low shrinkage

Trifunctional Acrylates

PETA Pentaerythritol triacrylate	Fast cure speed and hardness with pendant OH groups
TMP(PO) ₃ TA Trimethylolpropane (PO) ₃ triacrylate	Good flexibility, fast cure speed, good weatherability
TMPTA Trimethylolpropane triacrylate	Fast cure speed, good chemical resistance, low volatility
TMP(EO) ₃ TA Trimethylolpropane (EO) ₃ triacrylate	Low viscosity, fast cure speed, good chemical resistance
TMP(EO) ₆ TA Trimethylolpropane (EO) ₆ triacrylate	Good flexibility, fast cure speed, good chemical resistance
TMP(EO) ₉ TA Trimethylolpropane (EO) ₉ triacrylate	Low skin irritation, low shrinkage, good flexibility
TMP(EO) ₁₅ TA Trimethylolpropane (EO) ₁₅ triacrylate	Water solubility, low skin irritation, low shrinkage
TMP(EO) ₂₀ TA Trimethylolpropane (EO) ₂₀ triacrylate	Good flexibility, fast cure speed, low shrinkage
GPTA Glycerine (PO) ₃ triacrylate	Fast cure speed, good hardness, good chemical resistance
THEICTA Tris(2-hydroxy ethyl) isocyanurate triacrylate	Fast cure speed, good scratch resistance, good adhesion

Multifunctional Acrylates

DTMPTTA Ditrimethylolpropane tetraacrylate	Excellent cure speed, good hardness, low irritation
PETTA Pentaerythritol tetraacrylate	Excellent hardness, excellent scratch resistance
PE(EO) _n TTA Pentaerythritol (EO) _n tetraacrylate	Fast cure speed, good chemical resistance, good scratch resistance
DPHA Dipentaerythritol hexaacrylate	Excellent surface hardness, excellent scratch resistance
DPE(EO) ₁₃ HA Dipentaerythritol (EO) ₁₃ hexaacrylate	Good hardness, scratch resistance, flexibility
DPE(EO) ₂₄ HA Dipentaerythritol (EO) ₂₄ hexaacrylate	Scratch resistance, elasticity, flexibility

Oligomers

Urethane Acrylates

Aliphatic difunctional urethane acrylate	Low viscosity, good flexibility and elasticity
Aliphatic difunctional urethane acrylate	Good stain resistance , good flexibility and elasticity, soft feeling
Aliphatic difunctional urethane acrylate	Good stain resistance , good flexibility and elasticity, soft feeling
Aliphatic trifunctional urethane acrylate	Good elasticity and flexibility
Aliphatic hexafunctional urethane acrylate	High hardness, good scratch and abrasion resistance
Aliphatic hexafunctional urethane acrylate	High hardness, good scratch and abrasion resistance
Aromatic hexafunctional urethane acrylate	High hardness, good scratch and abrasion resistance

Epoxy Acrylates

Bisphenol A epoxy diacrylate	High hardness and gloss, good chemical resistance
Bisphenol A epoxy diacrylate, Diluted in 20% HDDA	High hardness and gloss, good chemical resistance
Bisphenol A epoxy diacrylate, Diluted in 20% TPGDA	High hardness and gloss, good chemical resistance
Bisphenol A epoxy diacrylate, Diluted in 20% TMPTA	High hardness and gloss, good chemical resistance
Modified epoxy diacrylate	Improving flexibility, good abrasion resistance

Polyester Acrylates

Tetrafunctional polyester acrylate	High reactivity, good scratch resistance
Multifunctional polyester acrylate	Low viscosity, high reactivity, good abrasion resistance
Difunctional polycarbonate acrylate	Good stain resistance, good flexibility and elasticity, soft feeling
Difunctional polycarbonate acrylate	Good stain resistance, good flexibility and elasticity, soft feeling
Difunctional polycarbonate acrylate	Good stain resistance, good flexibility and elasticity, soft feeling

Organic-Inorganic Hybrid Materials

Zirconia

The Z series are versatile dispersion of colloidal zirconia in acrylate monomer for the use in optical coating applications. The zirconia phase consists of surface-modified, synthetic ZrO₂-spheres of very small size(Φ 30 ~ 40nm) and narrow particle size distribution.

Key features

- High refractive index, high inorganic-content, no sedimentation

Silica

The S series are versatile dispersion of colloidal silica in acrylate monomer for the use in hard coating applications. The silica phase consists of surface-modified, synthetic SiO₂-spheres of very small size(Φ 20 ~ 30nm) and narrow particle size distribution.

Key features

- High hardness, good scratch resistance, good abrasion resistance

Alumina

The R series are versatile dispersion of colloidal alumina in acrylate monomer for the use in hard coating applications. The alumina phase consists of surface-modified, synthetic AlOOHspheres of middle size(Φ 80 ~ 130nm) and narrow particle size distribution.

Key features

- High hardness, good scratch resistance, good abrasion resistance

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