

EXCELATE RUA-004

UV-curable urethane acrylate

EXCELATE RUA-004 is a urethane acrylate with high hardness and low shrinkage.

It has low cure shrinkage and is flexible despite being a hard coat.

It is suitable as a coating material for the housings of small home appliances, cosmetic containers, etc.

Feature

1. Exhibits excellent low cure shrinkage.
2. It can also be used as a low shrinkage agent for hard coats.
3. Excellent adhesion to various plastic substrates, suitable for a wide range of substrates.

Application

Coating materials for plastic substrates



Cosmetic container



Home appliances

Property (Typical)

Item	Condition	EXCELATE RUA-004
Component	—	Urethane acrylate
Solid content(%)	—	80
Viscosity (mPa·s, 25°C)	BM type	1500
Functional groups	Calculated value	9
Appearance	Visual	Pale yellow liquid
Solvent	—	Butyl acetate

Performance

Item	Condition	Result
Adhesion	PC	100/100
	ABS	100/100
	PET	100/100
	PMMA	100/100
Pencil hardness	PC	H
	PET	2H
	PMMA	8H
Curing shrinkage	PET film	Average lift of the four corners
		0.6mm

Curing Conditions: 80mW/cm² × 1000mJ/cm²

Drying thickness: 10um

Curing shrinkage: PET film 10cm × 10cm Average lift of the four corners after curing

Others

When handling this product, please read the Safety Data Sheet (SDS) and strictly follow the usage instructions and precautions.

This content may be changed without notice.