

EXCELHARDENER X-04

Fast curing polyisocyanate

EXCELHARDENER X-04 is a fast-curing HDI polyisocyanate.

It is a polyisocyanate with excellent adhesion to substrates, making it ideal as a hardening agent for screen ink.

Feature

1. Fast curing and long pot life.
2. Excellent adhesion to various plastic substrates.
3. Non-yellowing type hardener.

Application

Curing agent for screen ink, curing agent for various polyols

Property (Typical)

| Item | Condition | EXCELHADENER X-04 |
|------------------------|------------------|---------------------|
| Component | — | HDI polyisocyanate. |
| Solid content(%) | — | 100% |
| Viscosity(mPa·s, 25°C) | BM type | 11000 |
| NCO content(%) | Titration | 19.2% |
| Functional groups | Calculated value | 3 |
| Appearance | Visual | Pale yellow liquid |
| Solvent | — | — |

Performance

| Item | | Condition | Result |
|-------------------|--------------------------|---|-----------------------------------|
| Main Agent | Product name | — | EXCELOL673NF |
| | Component | — | Polyester modified acrylic polyol |
| | Hydroxyl Value (mgKOH/g) | — | 12mgKOH/g |
| | Solid content(%) | — | 50% |
| Hardener | Product name | — | EXCELHARDENER X-04 |
| Mixing ratio | | Weight ratio | 100/5.2 |
| Curing | MEK rubbing | Time to cure at 80°C and stop melting | 30min |
| Pencil hardness | | On glass, load 750g | 2B |
| Flexibility | | Mandrel Test | 2mmPass |
| Adhesion | PC | JIS K5600-5-6 Grid adhesion test (1mm × 1mm/grid, 100 grids in total) 100 is perfect. | 100/100 |
| | ABS | | 100/100 |
| | PSt | | 100/100 |
| | PET | | 100/100 |
| | PMMA | | 100/100 |
| Stretch ratio | Film | Dumbbell No. 2 | 100% |
| Breaking Strength | Film | Test speed 200mm/min | 14MPa |

Curing condition: 70°C × 1h → 23°C × 24h

Drying thickness: 10um

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.