

DESCRIPTION

The Designer Molecules, Inc. **ECAT** products consist of a series of four proprietary imidazole epoxy catalysts that provide a range of curing options – all with superior latency.

HIGHLIGHTS

- Good solubility in most epoxy monomers
- Can be used as a catalyst or curative
- Unlike traditional catalysts, the **ECAT** series promotes clean, rapid monomodal cures
- Excellent latency characteristics
- Tunable cures

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

| DESIGNATION | APPEARANCE | MELTING POINT (°C) | LIQUID EPOXY HOMOCURE W/ 5% CATALYST CURE ONSET (°C) |
|-------------------------|------------------------|--------------------|--|
| ECAT-243 | Bright Yellow Crystals | 120 – 125 | 128 |
| ECAT-259 | Yellow Powder | 230 - 240 | 150 |
| ECAT-353 | Beige Powder | 260 - 270 | 166 |
| ECAT-434 ⁽¹⁾ | Yellow Solid | 45 - 55 | 128 |

Data is for reference only and may vary depending on testing method used

RECOMMENDED USES:

The **ECAT** series of products may be used as accelerators for epoxy homocures or in conjunction with traditional epoxy curatives such as dicyandiamide, aromatic amines, phenyl esters, phenols, etc. When used alone, the **ECAT** series of products operate as effective and efficient curing agents for epoxy homocures.

RECOMMENDED FORMULATIONS:

CATALYST: Suggested catalytic concentrations of the **ECAT** series products range between 0.5 to about 5% by weight of epoxy monomer(s).

EPOXY CURATIVE: Recommended concentration of the **ECAT** series products for use as epoxy curatives is 7 – 15% weight percent with the balance being epoxy monomer(s).

CONTACT:**REQUEST A SAMPLE OR PLACE AN ORDER**

Customer Support

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US and foreign patents pending