

ISOCRYL® EP-452 *Experimental Product*
FLOW CONTROL PRODUCT
FOR POWDER COATINGS



THE EDGE OF INNOVATION

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GENERAL DESCRIPTION

Isocryl® EP-452 is a general purpose flow control system for a broad spectrum of epoxy functional acrylic resins, notably GMA acrylic clearcoats. At additive levels of 5-10% it provides outstanding clarity, smoothness, and recoatability. In addition, EP-452 affords excellent distributive mixing during the premixing stage and dispersion in the extrusion phase of the powder coating manufacturing process.

As with any raw material, laboratory evaluation is required for each formulation to determine the best processing method and the optimum concentration of the additive.

TYPICAL PROPERTIES*

Appearance	Granules
Specific Gravity (25/25)	1.15
Non-Volatile, weight %	99% minimum
Softening Point, RING & BALL	110 - 130°C

* Not to be used for specification purposes

REGULATORY LISTINGS

The components in this material are either listed or exempt from listing due to polymer exemption criteria for the following chemical listing inventories: IECSC (China), TSCA (USA)

PACKAGING (NET WEIGHT)

44 lb. / 20 kg in fiberboard box with polyolefin liner

PRODUCT AVAILABILITY

This product is still experimental and requires lead time.

STORAGE AND HANDLING

Store in a dry, cool area and avoid excessive heat. See SDS for additional information.

EXAMPLE POWDER COATING FORMULATION*

Isocryl® EP-450, 455 or 555 Crosslinked with Aliphatic Dicarboxylic Acid

CLEAR FORMULATION

Isocryl® EP-450, 455, 555	78
Dodecanedioic Acid	22
Isocryl® EP-452	5 - 10
Benzoin	1

EXTRUSION CONDITIONS Zone 1 - 195°F, Zone 2 - 205°F, 150 rpm, double extrusion

**This formulation is an example based on experimental data acquired on a 25mm single screw extruder. Processing conditions, formulation composition and concentrations may need optimization to meet the individual customer's requirements.*

CONTACT INFORMATION

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TDS Revised by: G. Pearson

TDS Approved by: R. Auerbach