

Indigicot S105

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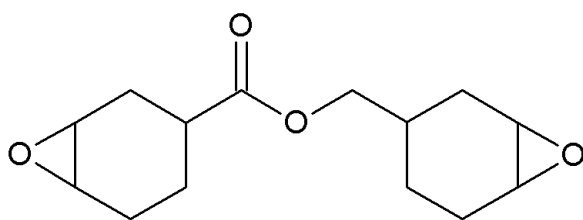
Technical Data Sheet

Chemical Name

7-oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate

CAS Number	EC Number	Mol. Wt.
2386-87-0	219-207-4	252.3

Structure



General Information

Indigicot S105 is a cycloaliphatic epoxy base resin for specific application in HP Indigo Pack Ready digital printing/lamination technology for labels and packaging materials.

The product can affect crosslinking of polymer chains in printed film, primer and ink, creating a new molecular polymer architecture.

Indigicot S105 provides improved physical properties and durability in high-performance flexible packaging applications such as retort pouches.

The technology was validated, when the Indigicot S105 pure product amount was diluted with ethyl acetate solvent, coating applied (0.12-0.15 gsm dry) on the ink with sufficient drying and curing process.

Applications

- Reverse printed PET film laminated onto pre-laminated Aluminium retort pouch (Al/PP or Al/OPA/PP).
- Reverse printed PET high barrier (AlOx, SiOx) film laminated onto pre-laminated clear retort pouch (BOPA/PP).
- Flexible packaging.

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Features and Benefits

HP Indigo Pack Ready provides post-print converting solutions designed to maximize the value of HP Indigo digital printing for labels and packaging. HP Indigo Pack Ready Coating technology uses Indigicot S105 in solvent solution to penetrate into HP Indigo Electroink layer and crosslink the HP Indigo printed film providing the following features:

- The film gains stronger physical properties and durability performance.
- Provides image water resistance and chemical resistance.
- Improves heat-seal durability
- Withstands retort application at 130°C for 60 min with Aluminum retort pouches and in clear retort pouches for 125°C for 30 min.

Storage and Handling

Stable for at least 2 year(s) at 20°C in a sealed container in the dark.

Transport Classification

(EUROPE AND USA) NON-HAZARDOUS

Global Inventories

REACH, EINECS, TSCA, DSL, AICS, NZIoC, IECSC, CSCL, ECL, PICCS, TSCI

Health and Safety Information

Customers, using Indigicot S105 in any specially-regulated applications, such as indirect contact food packaging, must comply with all applicable laws and regulations.

A full Safety Data Sheet is available on request.

Specification

Appearance:	Colourless to pale yellow clear liquid
Viscosity:	200.0 - 350.0 mPa.s
Water Content:	≤ 0.05 %w/w
Epoxide Equivalent:	126.0 - 145.0 g/mol
Apha:	≤ 50.0

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