

Product information

ANCHOR[®] 1040

Curing Agent

DESCRIPTION

Anchor 1040 is a chemically modified amine complex of boron trifluoride designed for use as a latent catalytic curing agent for liquid and solid epoxy resin. Cured mechanical properties, heat resistance and chemical resistance are typically excellent but are dependent upon the concentration and degree of post cure employed.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Orange-Red Liquid		
Colour	< 12	Gardner	ASTM D 1544-80
Viscosity @ 25°C	10-20	Pa.s	Brookfield RVTD, Spindle 4
Free Water	< 3.5	%	K Fischer
Specific Gravity @ 21°C	1.13	g/ml	
Flash Point (closed cup)	102		
Recommended use Level	7-12	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Reduced hygroscopicity
- Good solubility in liquid epoxy resins

APPLICATIONS

- Powder Coatings
- One-pack body solders
- Laminates
- Surface Coatings
- Epoxy molding powders
- Binders for carbon fiber composites

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

Product may partially solidify or may separate in transit or on standing. Warm product to 60°C and stir to ensure consistent performance, vent drum. Refer to the Safety Data Sheet for Anchor 1040 curing agent.

TYPICAL HANDLING PROPERTIES [10 PHR]

Property	Value	Unit	Method
Gel Time 150g @ 25°C	6-10	weeks	Techne GT-3 Gelation Timer
55g @ 110°C	50	min	
DSC Activation Temperature	100	°C	Heating rate 10°C/min
Typical cure schedule	4h @ 130°C		

TYPICAL PERFORMANCE PROPERTIES *

Heat Distortion Temperature 130 °C (ASTM D648)

* 4 h @ 130°C

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EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

Product Information: APCSE@evonik.com

Sample Request: APCSE@evonik.com

EVONIK CORPORATION

Business Line Crosslinkers
7001 Hamilton Boulevard
Trexlerstown, PA 18087
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

