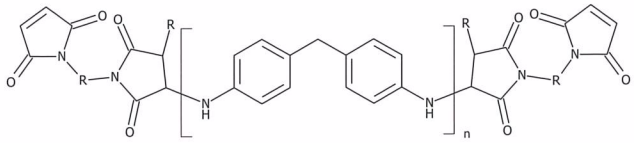
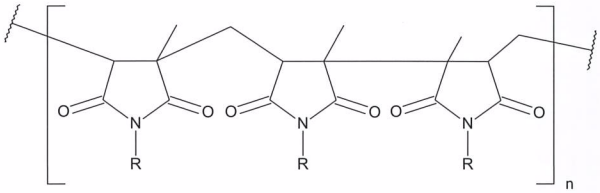
DUROPLASTIC RESIN SYSTEMS

The high-performance duroplastic resins are prepolymers (A-stage) which contain thermally curable groups. These resins are used for high-performance applications for the manufacture of prepregs, laminates and for moulding of structural parts with glass, aramid or carbon fibre by using the conventional thermoset processing method. The final parts made of these resins show excellent mechanical properties and long-term dimensional and thermal stability. Homide 250 can be used as binding agent for diamond wheels.



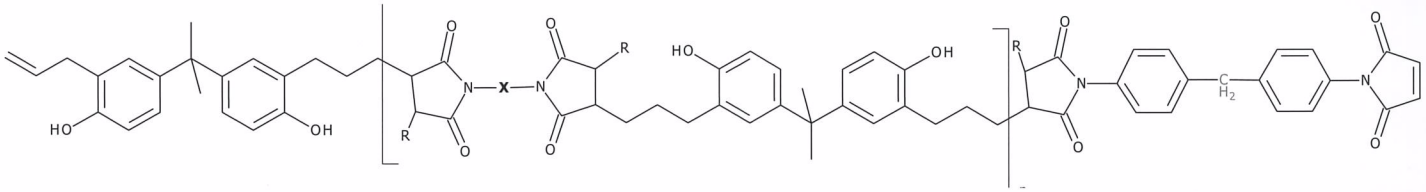
HOMIDE 250/250L

Resin based on
4,4´ -Diphenylmethanebismaleimide
CAS-No. 26140-67-0



HOMIDE 400/400L

Resin based on Biscitraconimide



HOMIDE 801/801L

Resin based on bismaleimide monomers and reactive diluent

HOMIDE 802/802L

Resin based on bismaleimide monomers, reactive diluent and toughening agent

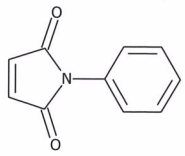
Resin Type	T_G	Curing Temperature	Post Curing Temperature	Curing Time/ Post Curing Time	Appearance	Resin Content (Solvent)	Melting Temperature	Remarks
Homide 250	300°C	180-200°C	220-230°C	1 h / 6 h	yellow powder	100%	90–125 °C	
Homide 250L	300°C	180-200°C	220-230°C	1 h / 6 h	brown liquid	45% in NMP	–	
Homide 400	310°C	200°C	220-230°C	1 h / 6 h	resolidified melt	100%	70-120°C	2.)
Homide 400L	310°C	200°C	220-230°C	1 h / 6 h	brown liquid	70% in MEK	–	
Homide 801	280°C	180°C	200-220°C	1 h / 6 h	resolidified melt	100%	40-70°C	2.)3.)
Homide 801L	280°C	180°C	200-220°C	1 h / 6 h	brown liquid	60–70% in MEK	–	
Homide 802	280°C	180°C	200-220°C	1 h / 6 h	resolidified melt	100%	40-70°C	1.)2.)3.)
Homide 802L	280°C	180°C	200-220°C	1 h / 6 h	brown liquid	60–70% in MEK	–	1.)

Curing always with pressure - Post-Curing always without pressure

1.) Outstanding interlaminar bonding strength (ILBS)
2.) Can be used for hot-melt applications
3.) Can be dissolved right before using

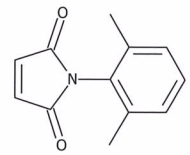
MONO- AND BISMALEIMIDES

Mono- and bismaleimides are duroplastic powdery thermoset monomers that can be dissolved in organic solvents. All these components can be cured thermally with or without accelerators. The Homide monomers can be used as raw materials for the production of high-temperature resins and as cross-linking agents for rubber in the vulcanization process. The use of such cross-linking agents improves the mechanical and thermal properties of the elastomers produced.



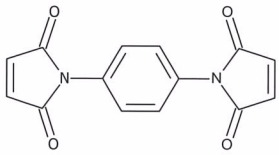
HOMIDE 105

N-phenylmaleimide
CAS-No. 941-69-5
Yellow crystalline powder



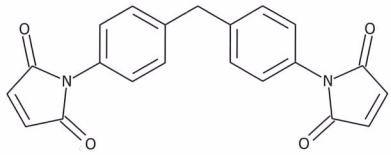
HOMIDE 108

2,6-Xylylmaleimide
CAS-No. 1206-49-1
White crystalline powder



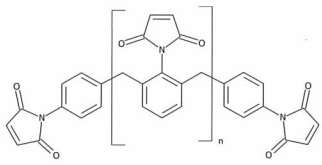
HOMIDE 120

N,N´-p-phenylenebismaleimide
CAS-No. 3278-31-7
Yellow powder



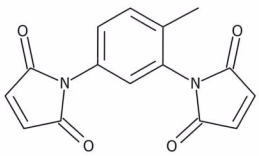
HOMIDE 121

4,4´-Diphenylmethanebismaleimide
CAS-No. 13676-54-5
Yellow powder



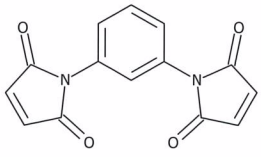
HOMIDE 122

Polyphenylmethanebismaleimide
CAS-No. 28630-26-4
Yellow powder



HOMIDE 123

Homide 123
N,N´-(4-methyl-m-phenylene)-bismaleimide
CAS-No. 6422-83-9
Yellow powder

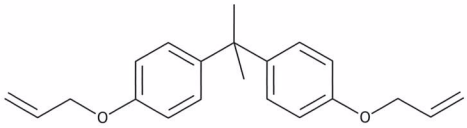


HOMIDE 125

N,N´-m-phenylenebismaleimide
CAS-No. 3006-93-7
Yellow powder

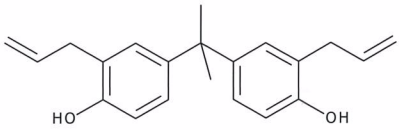
REACTIVE DILUENTS

The reactive diluents contain heat-curable groups and can be used as monomers for the production of resin systems resistant to high temperatures and in formulations for the manufacture of prepregs and adhesives.



HOMIDE 126A

Diallylether bisphenol A
CAS-No. 3739-67-1
Yellowish liquid



HOMIDE 127A

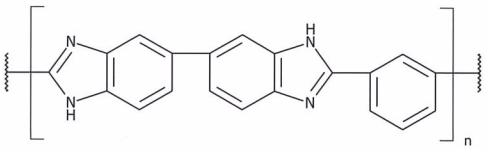
Homide 127A
o,o´-Diallylbisphenol A
CAS-No. 1745-89-7
Yellowish liquid

PBI – POLYMBENZIMIDAZOLE

HOZOLE is a linear high-performance polymer with outstanding chemical, mechanical and thermal properties. The powdery HOZOLE can be used for compression moulding, for coating and film applications like membranes for fuel cells and separators for li-ion batteries.

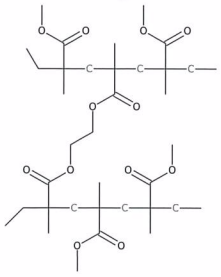
HOZOLE

Polybenzimidazole
CAS-Nr. 25928-81-8
Brown powder



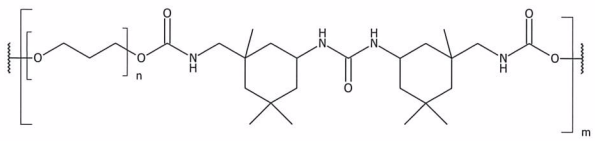
MICROBEADS

HOSBeads are spherical beads made of highly cross-linked methyl methacrylate (HOSBeads A) or polyurethane (HOSBeads U) which can be used in solvent-based and waterborne paints and coatings. To improve the structure, opacity and matting of your product. HOSBeads can be blended with other fillers or matting-agents. Our HOSBeads show very good resistance to hydrolysis and high colour depth.



HOSBEADS A durable

Methyl methacrylate cross-linked with Ethylene glycol dimethacrylate
CAS-No. 9011-14-7
Microbeads in different colours
(Black / White / Transparent)



HOSBEADS U soft

Polyol cross-linked (poly-addition)
with diisocyanate
CAS-No. 909-54-5
Microbeads in different colours (Black / White / Transparent / Yellow / Red / Green / Blue)