

Title (en)

HIGH TEMPERATURE PERFORMANCE POLYMERS FOR STEREOGRAPHY

Title (de)

HOCHTEMPERATURBESTÄNDIGE POLYMERE FÜR STEREOGRAPHIE

Title (fr)

POLYMERES PERFORMANTS A HAUTES TEMPERATURES ET DESTINES A LA STEREOGRAPHIE

Publication

EP 0960354 A1 19991201 (EN)

Application

EP 98905054 A 19980213

Priority

- US 9802679 W 19980213
- US 3841897 P 19970218
- US 1370098 A 19980126
- US 1315998 A 19980126

Abstract (en)

[origin: WO9836323A1] The present invention relates to polymer precursors used in stereolithography. Specifically, the invention provides a novel resin having a glass transition temperature (Tg) that is substantially higher than any existing resins. The polymer precursors comprise an admixture of at least one vinyl ether, functionalized compound and at least one epoxy functionalized compound, at least one acrylate functionalized compound, and a photoinitiator, wherein the polymer precursor composition cures by a dual cure mechanism utilizing a free radical pathway as well as a cationic pathway thus yielding improved green strength.

IPC 1-7

G03C 9/08; G03F 7/027; C08F 283/10; C08F 2/46

IPC 8 full level

B29C 67/00 (2006.01); **C08F 2/48** (2006.01); **C08F 283/10** (2006.01); **C08G 59/24** (2006.01); **G03F 7/00** (2006.01); **G03F 7/027** (2006.01)

CPC (source: EP)

C08F 283/10 (2013.01); **C08F 283/105** (2013.01); **G03F 7/0037** (2013.01); **G03F 7/027** (2013.01)

Citation (search report)

See references of WO 9836323A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 9836323 A1 19980820; EP 0960354 A1 19991201; JP 2001527590 A 20011225

DOCDB simple family (application)

US 9802679 W 19980213; EP 98905054 A 19980213; JP 53588498 A 19980213