

Title (en)

POLYGLYCIDYL SPIROCOMPOUNDS AND THEIR USE IN EPOXY RESINS

Title (de)

POLYGLYCIDYL SPIROVERBINDUNGEN UND IHRE VERWENDUNG IN EPOXIDHARZEN

Title (fr)

SPIRO COMPOSES DU TYPE POLYGLYCIDYLE ET LEUR UTILISATION DANS DES RESINES EPOXY

Publication

EP 1015440 A1 20000705 (EN)

Application

EP 98941293 A 19980706

Priority

- CH 174497 A 19970716
- EP 9804168 W 19980706

Abstract (en)

[origin: WO9903851A1] A polyglycidyl compound having on average more than two, preferably more than two and a half, particularly preferably more than three, glycidyl groups per molecule and a T_g value (determined by DSC, heating rate = 20 DEG C/min) higher than 20 DEG C, based on a polyfunctional 1,1'-spirobisindane of formula (I) or on a mixture of different polyfunctional 1,1'-spirobisindanes of general formula (I) wherein Z is a direct single bond or -O-; more than two of R₁, R₂, R₃ and R₄ are -OH, -O-CO-R-CO-OH, -O-R-OH, -O-CO-NH-R-NH-CO-O-R-OH or -[O-C_mH_{2m}]n-OH, wherein m is an integer from 2 to 4, n is an integer from 1 to 20, and R is C₁-C₈alkylene, C₅-C₈cycloalkylene, C₆-C₁₄arylene or partially hydrated C₆-C₁₄arylene, and the remaining R₁, R₂, R₃ and R₄ are a hydrogen atom or -O-C₁-C₈alkyl, -O-C₅-C₈cycloalkyl, -O-C₆-C₁₄aryl, partially hydrated -O-C₆-C₁₄aryl or (meth)acrylate; and R₅, R₆, R₇ and R₈ are each independently of one another C₁-C₈alkyl, C₅-C₈cycloalkyl, C₆-C₁₄aryl, partially hydrated C₆-C₁₄aryl or a hydrogen atom, for the production of moulded articles, coatings, matrix materials or adhesives.

IPC 1-7

C07D 303/24; **C07D 303/16**; **C07D 493/10**; **C08G 59/32**

IPC 8 full level

C07D 303/24 (2006.01); **C07D 493/10** (2006.01); **C08G 59/32** (2006.01); **C09D 163/00** (2006.01); **C09D 167/00** (2006.01)

CPC (source: EP KR)

C07D 303/24 (2013.01 - EP KR); **C07D 407/14** (2013.01 - KR); **C07D 493/10** (2013.01 - EP KR); **C08G 59/3218** (2013.01 - EP KR); **C08G 59/3254** (2013.01 - EP KR); **C09D 163/00** (2013.01 - EP KR); **C09D 167/00** (2013.01 - EP)

Citation (search report)

See references of WO 9903851A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

WO 9903851 A1 19990128; BR 9810600 A 20000711; CN 1264373 A 20000823; EP 1015440 A1 20000705; JP 2002511874 A 20020416; KR 20010021700 A 20010315; TW 515815 B 20030101

DOCDB simple family (application)

EP 9804168 W 19980706; BR 9810600 A 19980706; CN 98807230 A 19980706; EP 98941293 A 19980706; JP 50637699 A 19980706; KR 20007000259 A 20000110; TW 87111417 A 19980714