



(51) International Patent Classification:
C08G 59/68 (2006.01) C08J 5/24 (2006.01)

(21) International Application Number:
PCT/IB2017/001484

(22) International Filing Date:
19 October 2017 (19.10.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/411,278 21 October 2016 (21.10.2016) US
62/567,990 04 October 2017 (04.10.2017) US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,
KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME,
MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ,
OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,
SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:
— with international search report (Art. 21(3))
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
07 June 2018 (07.06.2018)

(54) Title: EPOXY RESIN COMPOSITIONS AND FIBER-REINFORCED COMPOSITE MATERIALS PREPARED THEREFROM

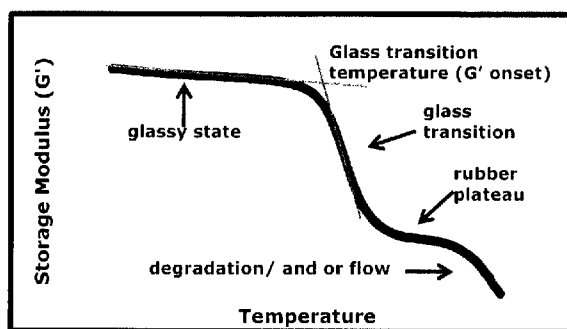


Figure 1. Storage modulus of cured epoxy resin as a function of temperature

(57) Abstract: An epoxy resin composition for a fiber-reinforced composite material, comprising components [A], [B], [C], [D], and [E], wherein the epoxy resin composition when cured has a glass transition temperature greater than 220 °C and a storage modulus, as defined by a specific method, less than 35 MPa, as determined from an elastic shear modulus measured at a temperature of at least 35 °C higher than the glass transition temperature, wherein the components [A], [B], [C], [D], and [E] comprise: [A] at least one naphthalene-based epoxy resin having an EEW between 190 and 260 g/mol; [B] at least one epoxy resin having a functionality of three or more; [C] at least one amine curing agent; [D] at least one latent acid catalyst; and [E] at least one cycloaliphatic epoxy resin. This epoxy resin composition is useful in the molding of fiber-reinforced composite materials. More particularly, it is possible to offer an epoxy resin composition for a fiber-reinforced composite material where the cured material obtained by heating has a high level heat resistance and microcrack resistance.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2017/001484

A. CLASSIFICATION OF SUBJECT MATTER		
Int.Cl. C08G59/68(2006.01)i, C08J5/24(2006.01)i		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Int.Cl. C08G59/68, C08J5/24		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Published examined utility model applications of Japan 1922-1996 Published unexamined utility model applications of Japan 1971-2018 Registered utility model specifications of Japan 1996-2018 Published registered utility model applications of Japan 1994-2018		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
CAplus/REGISTRY (STN)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2001/092368 A1 (TORAY INDUSTRIES, INC.) 2001.12.06 & US 2003/0064228 A1 & EP 1266921 A1	1-17
A	JP 2004-307766 A (NITTO DENKO CORP) 2004.11.04 (Family: none)	1-17
A	JP 2016-132752 A (NOF CORP) 2016.07.25 (Family: none)	1-17
A	JP 2016-160352 A (DAICEL CORP) 2016.09.05 (Family: none)	1-17
P, A	WO 2017/033056 A1 (TORAY INDUSTRIES, INC.) 2017.03.02 (Family: none)	1-17
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Date of the actual completion of the international search		Date of mailing of the international search report
06.04.2018		17.04.2018
Name and mailing address of the ISA/JP		Authorized officer
Japan Patent Office		Tamotsu FUJIMOTO
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		4J 7884
		Telephone No. +81-3-3581-1101 Ext. 3457