

บรรณานุกรม

ธนากร พีระพันธุ์. 2544. โครงการประเมินค่ากำลังอัดของคอนกรีตโดยอาศัยค่ากำลังอัดที่ได้จากการเร่งการแข็งตัวด้วยพลังไมโครเวฟ. กรุงเทพมหานคร : สำนักงานกองทุนสนับสนุนการวิจัย.

มนษา นายอรุณ. 2536. การทดสอบความแข็งแรงของวัสดุ. กรุงเทพมหานคร : เจริญธรรม.

แม่น ออมสินที และ สมชาย อัครทิวา. 2000. วัสดุวิศกรรม. กรุงเทพมหานคร : แมคกรอ-ชีล อินเตอร์เนชันแนล เอ็นเตอร์ไพร์ส.

สุรพล สุธีระเวชช์. 2541. เข้าใจและซ่อมเตาไมโครเวฟ. กรุงเทพมหานคร : อาร์ต เอจ กราฟ 皮ค.

เสาวรจน์ ช่วยจุลจิตร์. 2540. วัสดุศาสตร์มูลฐาน. กรุงเทพมหานคร : จุฬาลงกรณ์มหาวิทยาลัย.

อิทธิพล แจ้งชัด. 2544. โพลีเมอร์คอมโพสิต. ม.ป.ท.

Alazard, P., Palumbo, M. and Gourdenne, A. 2003. "Curing under Continuous Microwave (2450 MHz) of Thermosetting Epoxy Prepolymer : Final treatment", Macromolecule Symposia. 199 (2003), 59-72.

Alberolaq, N.D., Merle, G. and Benzarti, K. 1999. "Unidirectional Fiber- Reinforced Polymers : Analytical Morphology Approach and Mechanical Modeling Based on the Percolation Concept", Polymer. 40 (1999), 315-328.

Alkan, A.A.M., Biddlestone, F. and Hay, J.N. 1995. "The Thermal Properties of Polyether Sulphone", Thermomica Acta. 256 (1995), 123-135.

- Alvarez, V.A., Valdez, M.E. and Vazuquez, A. 2003. "Dynamic Mechanical Properties and Interphase Fiber/Matrix Evaluation of Unidirectional Glass Fiber/Epoxy Composites", Polymer Testing. 22 (2003), 611-615.
- Amash, A. and Zugenmaier, P. 1997. "Thermal and Dynamic Mechanical Investigation on Fiber-Reinforced Polypropylene Composites", Journal of Applied Polymer Science. 63 (1997), 1143-1154.
- American Society for Testing and Materials. 1982. "Standard Test Method for Impact of Plastics and Electrical Insulating Material", Annual Book of ASTM Standards. 35, D 256-81.
- American Society for Testing and Materials. 1982. "Standard Test Method for Tensile Properties of Plastics (Matrix)", Annual Book of ASTM Standards. 35, D 638M-81.
- American Society for Testing and Materials. 1982. "Standard Test Method for Flexural Properties of Plastics and Electrical Insulating Material (Metric)", Annual Book of ASTM Standards. 36, D 790M-81.
- American Society for Testing and Materials. 1982. "Standard Test Method for Epoxy Content of Epoxy Resin", Annual Book of ASTM Standards. 35, D 1652-73.
- Bai, S.L., et al. 1995. "A Comparative Study of the Mechanical Behavior of an Epoxy Resin Cured by Microwave with one Cured Thermally", European Polymer Journal. 3, No.9 (1995), 875-884.
- Bai., S.L. and Djafari. 1995. "Interfacial Properties of Microwave Cured Composites", Composites. 26, No. 9 (1995), 645.

Barral, L., et al. 2000. "Thermal Properties of Amine Cured Diglycidyl Ether of Bisphenol A Epoxy Blend with Poly (Ether Imide)", Thermochimica Acta. 344 (2000), 137-143.

Boey, F.Y.C. 1995. "Humidity and Autoclave Pressure Effect on the Interfacial Shear Strength of a Microwave Cured Epoxy-Glass Fiber Composite", Polymer Testing. 14 (1995), 471-477.

Boey, F.Y.C., Yap, B.H. and Chia, L. 1999. "Microwave Curing of an Epoxy–Amine System : Effect of Curing Agent on the Rate Enhancement", Polymer Testing. 18 (1999), 93-109.

Boey, F.Y.C. and Qiang, W. 2000. "Determining the Gel Point of an Epoxy Hexahydro-4 Methylphthalic Anhydride (MHHPA) System", Journal of Applied Polymer Science. 76 (2000), 1248-1256.

Boey, F.Y.C. and Qiang, W. 2000. "Experimental Modeling of the Cure Kinetics of an Epoxy-Tetrahydro-4 Methylphthalic Anhydride (MTHPA) System", Polymer. 4 (2000), 2081-2094.

Boey, F.Y.C. and Rath, S. K. 2000. "Microwave Radiation of Polymers : Using a Temperature Equivalent Method for Cure Reaction Analysis", Advances in Polymer Technology. 19, No.3 (2002), 194-202.

Boey, F.Y.C. and Yap, B.H. 2001. "Microwave Curing of an Epoxy–Amine System : Effect of Curing Agent on the Glass -Transition Temperature", Polymer Testing. 20 (2001), 837-845.

Brown, M.E. 1988. Introduction to Thermal Analysis. New York : Chapman and Hall.

Campbell, R.A., Pethrick and White, J.R. 2000. Polymer Characterization. 2d ed. Stanley Thornes : United Kingdom.

Chen, M., et al. 1993. "Basic Ideal of Microwave Processing of Polymer", Polymer Engineering and Science. 33, No.17 (1993), 1092-1109.

Chia, H.L., Jacob, J. and Boey, F.Y.C. 1996. "The Microwave Radiation Effect on the Polymerization of Styrene", Journal of polymer Science Part A : Polymerchemistry. 34 (1996), 2087-2094.

Cook, W.D., et al. 2004. "Dynamic Thermal Analysis of Thermally State and Thermally Reactive Network Polymers", Journal of Applied Polymer Science. 93 (2004), 1348-1359.

Cukierman, S., Halary, J.L. and Monnerie, L. 1991. "Dynamic Mechanical Response of Model Epoxy Network in Glassy State", Polymer Engineering and Science. 31, No.20 (1991), 1476-1482.

Dyakonov, T., et al. 1996. "Thermal Analysis of Some Aromatic Amine Cured Model Epoxy Resin System-I : Materials Synthesis and Characterization, Cure and Post-cure", Polymer Degradation and Stability. 53 (1996), 217-242.

Ellis, B. 1993. Chemistry and Technology of Epoxy Resins. London : Chapman & Hall.

Fang, X. and Scolla, D.A. 1999. "Investigation of Microwave Energy to Cure Carbon Fiber Reinforced Phenylethynyl-Terminated Polyimide Composites, PETI-5/IM7", Journal of Polymer Science : Part A : Polymer Chemistry. 37, No.37 (1999), 4616-4628.

Fini, A. and Breccia, A. 1999. "Chemistry by Microwave", Pure Appl. Chem. 71, No.4, 573-579.

Forysth, A., Whittaker, A.K. 1999. "Polymerization of Bisphenol A/Diaminodiphenyl Sulphone Epoxy Resins Using Radio Frequency Fields", Journal of Applied Polymer Science. 74 (1999), 2917-2923.

Grulke, Eric A. 1994. Polymer Process Engineering. New Jersey : PTR Prentice Hall.

Guerrero, P., et al. 1996. "Influence of Cure Schedule and Stoichiometric on the Dynamic Mechanical Behavior of Tetrafunctional Epoxy Resins Cured with Anhydride", Polymer. 37, No.11 (1996), 2195-2200.

Hatakeyama, T. and Quinn, F.X. 1999. Thermal Analysis. 2d ed. Chichester : John Wiley & Son.

Hawley, M.C. and Delong, J.D. n.d. "Microwave Processing of Polymer Composites Materials", Polymer Engineering and Science. 25, 153-160.

Heba, F., Mouzail, M. and Abadie, M.J.M. 1999. "Effect of Crosslinking Degree on Curing Kinetics of an Epoxy-Anhydride Styrene Copolymer System", Journal of Applied Polymer Science. 73 (1999), 2089-2094.

Jacob, J., Chia, L.H.L. and Boey, F.Y.C. 1995. "Comparative Study of Methyl Methacrylate Cure by Microwave Radiation Versus Thermal Energy", Polymer Testing. 14 (1995), 343-354.

Jacob, J., Chia, L.H.L. and Boey, F.Y.C. 1995. "Microwave Polymerization of Poly (methyl acrylate) : Conversion Studies at Variable Power", Journal of Applied Polymer Science. 63 (1997), 343-354.

- Jarvela, P. and Shucui, L. 1996. "Dynamic Mechanical Properties and Morphology of Polypropylene/Maleated Polypropylene Blend", Journal of Applied Polymer Science. 62 (1996), 813-826.
- Jones, F.R. 1994. Handbook of Polymer- Fiber Composites. England : Longman Scientific & Technical.
- Jordan, C., Galey, J. and Pascault, J.P. 1995. "Comparison of Microwave and Cure of an Epoxy/ Amine Matrix", Polymer Engineering and Science. 35, No.3 (1995), 233-239.
- Jow, J., Hawly, M.C., Finzel, M. and Kern, T. 1988. "Dielectric Analysis of Epoxy /Amine Resin Using Microwave Cavity the Technique", Polymer Engineering and Science. 28, No.22 (1988), 1450-1454.
- Keusch, S. and Haessler, R. 1999. "Influence of Surface Treatment of Glass Fibers on the Dynamic Mechanical Properties of Epoxy Resin Composites", Composites : Part A. 30 (1999), 997-1002.
- Laza, J.M., et al. 1998. "Thermal Scanning Rheometer Analysis of Curing Kinetic of an Epoxy Resin : an Amine as Curing Agent", Polymer. 40 (1998), 35-40.
- Lazaridou, A. and Biliaderis, C.G. 2002. "Thermophysical of Chitosan, Chitosan-Sarch and Chitosan –Pullutan Films Near the Glass Transition", Carbohydrate Polymer. 48 (2002), 179-190.
- Lu, J., et al. 1998. "Microwave Radiation Copolymerization in Solid State of Maleic Anhydride and Allythiourea", Journal of Applied Polymer Science. 68 (1998), 1563-1566.

- Iovo. et al. 2001. "Epoxy Resins Crosslink under Microwave and/or Electron Beam Treatment", Fifth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-5), September 1-30, (2001). University Politecnica of Bucharest : Romania.
- Matthews, F.L. and Rawlings, R. D. 1994. Composites Materials : Engineering and Science. London : Chapman & Hall.
- Mijovic, J., et al. 1998. "In Situ Real-Time Study of Crosslinking Kinetics in Thermal and Microwave Fields", Polymers for Advanced Technologies. 9 (1998), 231-243.
- Miracle, D.B. and Donaldson, S.L. 2001. AST Hanbook Volume 21 Composites. USA : ASM International.
- Montserrat, S., et al. 1995. "Influence of the Accelerator Concentration on the Curing Reaction of an Epoxy–Anhydride System", Thermochimica Acta. 269 (1995), 213-229.
- Montserrat, S., et al. 2000. "Effect of Crosslink Length on the Enthalpy Relaxation of Fully Cured Epoxy –Diamine Resins", Journal of Polymer Science Part B : Polymer Physics. 38 (2000), 456-468.
- Nielsen, L.E. 1962. Mechanical Properties of Polymer. New York : Chapman & Hall.
- Nightingale, C. and Day, R.J. 2002. "Flexural and Interlaminar Shear Strength Properties of Carbon Fiber/Epoxy Composites Cured Thermally and Microwave Radiation", Composites : Part A. 33 (2002), 1021-1030.
- Park, S.J., et al. 2004. "Thermal and Mechanical Interfacial Properties of the DGEBA/PMR15 Blend System", Journal of Colloid and Interface Science. 270 (2004), 288-294.

Pichaud, S., Duteurtre, X. and Fit, A. 1999. "Chemorheological and Dielectric Study of Epoxy-Amine for Processing Control", Polym Int. 48 (1999), 1205-1218.

Potter, W.G. 1970. Epoxide Resins. London : The Plastic Institute.

Riccardi, C.C., Dupuy, J. and Williams, R.J.J. 1999. "A Simple Model to Explain the Complex Kinetic Behavior of Epoxy/Anhydride Systems", Journal of Polymer Science Part B : Polymer Physics. 37 (1999), 2799-2805.

Rheometric Scientific. 1999. Dynamic Mechanical Thermal Analyzer DMTA V. Revision A. USA : Rheometric Scientific.

Sanadi, et al. 1999. "Thermal and Mechanical Analysis of Lignocellulosis-Polypropylene Composites". The Fifth International Conference on Woodfiber-Plastic Composites, May 26-27 (1999). 67-78. Madison.

Sanz, G., et al. 1995. "Dependence of Dynamic Mechanical Behavior of DGEBA/DDM Stoichiometric Epoxy Systems on the Conditional of Curing Process", Journal of Applied Polymer Science. 55 (1995), 75-87.

Scott, T.F., Cook, W.D. and Forshythe, J.S. 2002. "Kinetics and Network Structure of Thermally Cured Vinyl Ester Resins", European Polymer Journal. 38 (2002), 705-716.

Sperling, L.H. 1986. Introduction to Physical Polymer Science. New York : John Wiley & Sons.

So, H.W. and Taube, A. 2004. "Modeling and Experimental Investigation of Microwave Heating of Adhesive Bonded Polypropylene Joint", International Journal of Adhesion &

- Adhesive. 24 (2004), 307-312.
- Solavador, M. and Jiri, M. 1993. "A Kinetic Analysis of the Curing Reaction of an Epoxy Resin", Thermochimica Acta. 228 (1993), 47-60.
- Thostenson, E.T. and Chou, T.W. 1990. "Microwave Processing : Fundamentals and Applications", Composites : Part A Applied Science and Manufacturing. 30 (1999), 1055-1071.
- Vaigyanathan, J. and Vaidyanathan, T.K. 1995. "Dynamic Mechanical Analysis of Heat, Microwave and Visible Light Cure Denture Base Resins", Journal of Materials Science Material in Medicine. 6 (1995), 670-674.
- Vazquez, A., et al. 1998. "Interphase Modification in Unidirectional Glass- Fiber Epoxy Composites", Composites Science and Technology. 58 (1998), 549-558.
- Wei, J., Hawley, M.C. and Delong, J.D. 1993. "Comparisons of Microwave and Thermal Cure of Epoxy Resins", Polymer Engineering and Science. 33, No.17 (1993), 1132-1140.
- Wei, J. and Hawley, M.C. 1995. "Kinetics Modeling and Time - Temperature – Transformation Diagram of Microwave and Thermal Cure of Epoxy Resins", Polymer Engineering and Science. 35, No.6 (1993), 461-470.
- Wingard, C.D. 2000. "Characterization of Prepreg and Cured Epoxy/Fiberglass Composites Materials for Use in Advanced Composites Piping Systems", Thermochimica Acta. 357 (2000), 293-301.
- Yarlagadda, P. K.D.V. and Cheok, E.C. 1999. "Study on the Microwave Curing of Adhesive Joints Using a Temperature–Controlled Feedback System", Journal of Material of Processing Technology. 91 (1999), 128-149.

Zhou, J., et al. 2003. "Research on the Technology and the Mechanical Properties of the Microwave Processing of Polymer", Journal of Material Processing Technology. 137 (2003), 156-158.

Zhou, S. and Hawley, M.C. 2003. "A Study of Microwave Reaction Rate Enhancement Effect in Adhesive Bonding of Polymers and Composites", Composites Structure. Impress.

<http://www.biotech.ufl.edu/EM/data/eponrecipes.html>. (15/05/2545).

<http://www.dss.go.th>. (27/09/2545).

<http://www.engineering-2000.com/april/article/storage/index6.htm>. (21/04/2546).

<http://www.uni-hohenheim.de/~heller/>. (13/08/2546).

<http://www.mtec.or.th>. (02/09/2547).