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(21) International Application Number: PCT/EP97/00631 (22) International Filing Date: 12 February 1997 (12.02.97) (30) Priority Data: 08/608,379 28 February 1996 (28.02.96) US (71) Applicant (for all designated States except MN): ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Suite 238, Two Greenville Crossing, 4001 Kennett Pike, Greenville, DE 19807 (US). (71) Applicant (for MN only): ARCO CHEMIE TECHNOLOGIE NEDERLAND B.V. [NL/NL]; P.O. Box 7195, NL-3000 HD Rotterdam (NL). (72) Inventors: CAI, Gangfeng; 145 Brittany Place, West Chester, PA 19380 (US). KLANG, Jeffrey, A.; 410 Balderson Drive, Exton, PA 19341 (US). YANG, Lau, S.; 2604 Northgate Road, Wilmington, DE 19810 (US). (74) Agent: SMAGGASGALE, Gillian, Helen; Mathys & Squire, 100 Gray's Inn Road, London WC1X 8AL (GB).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>	
(54) Title: PROCESS FOR MAKING HIGH-PERFORMANCE POLYETHERESTER RESINS AND THERMOSETS (57) Abstract A process for making high-performance polyetherester resins and thermosets is disclosed. A polyether polyol reacts with a dicarboxylic acid or anhydride in the presence of an insertion catalyst to produce an acid-terminated polyetherester resin. Reaction of this resin reacts with a primary diol or a diepoxy compound gives a chain-extended polyetherester resin that can be cured with a vinyl monomer to produce a high-performance polyetherester thermoset. Properties of the thermosets rival or exceed those or more expensive high-performance iso and vinyl ester resins.		