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(21) International Application Number: PCT/EP98/07307 (22) International Filing Date: 16 November 1998 (16.11.98) (30) Priority Data: 08/985,712 5 December 1997 (05.12.97) US (71) Applicant (for all designated States except MN): ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Two Greenville Crossing, Suite 238, 4001 Kennett Pike, Greenville, DE 19807 (US). (71) Applicant (for MN only): ARCO CHEMIE TECHNOLOGIE NEDERLAND B.V. [NL/NL]; Theemsweg 14, NL-3197 KM Botlek (NL). (72) Inventors: BARKSBY, Nigel; 100 Dogwood Lane, Dunbar, WV 25064 (US). LAWREY, Bruce, D.; Apartment 15, 1621 Virginia Street East, Charleston, WV 25311 (US). CLIFT, Susan, M.; 2292 Locust Drive, Lansdale, PA 19446 (US). (74) Agent: COLMER, Stephen, Gary; Mathys & Squire, 100 Grays 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, GD, GE, GH, GM, HR, HU, ID, 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, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: POLYURETHANE AND POLYURETHANE/UREA HEAT-CURED AND MOISTURE-CURED ELASTOMERS WITH IMPROVED PHYSICAL PROPERTIES

(57) Abstract

Elastomers with improved physical properties, particularly hardness, resilience, tear strength, and compression set, may be prepared by the chain extension or moisture cure of isocyanate-terminated prepolymers prepared from a polyol component comprising a high molecular weight, low unsaturation polyoxypropylene diol and a low molecular weight diol. The elastomers are useful for applications such as rollers and other applications for which these physical properties are important.