Author Name task started on Wed May 9, 2007 at 10:15 AM

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Natta, Giulio

Selected 2 of 3 candidates
NATTA G (325 references)
NATTA GIULIO (410 references)

Refine by Document Type started
Note: Refine by Document Type **"Patent"** is not supported by MEDLINE.

239 references were found when refined by Document Type **"Patent"**

Bibliographic Information

Process for producing elastomers and intermediates for synthetic rubbers. Natta, Giulio; Mazzanti, Giorgio; Boschi, Giorgio. (Montedison S.p.A., Italy). U.S. (1976), 16 pp. CODEN: USXXAM US 3957743 19760518 Patent written in English. Application: US 74-446920 19740228. Priority: . CAN 85:64458 AN 1976:464458 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)) (w.96)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
US 3957743	A	19760518	US 1974-446920	19740228
Priority Application				
US 1956-629085	A2	19561218		
US 1961-147970	A2	19611026		
US 1965-514764	A2	19651108		
US 1967-626367	A1	19670322		
US 1971-161281	A1	19710709		

Abstract

Ethylene (I)-propene (II) monomer mixt. is polymd. in the presence of the halogen-contg. catalyst essentially free of microcryst. precipitates (prepd. by mixing an alkyl Al compd. with a hydrocarbon-soluble V compd.), while maintaining a II/I ratio >4 in the liq. phase and at least 1:1 in the gas phase to give a substantially amorphous, linear rubber. Thus, 0.025 mole trihexyl aluminum, 300 cm3 heptane, 96.5 g propane, 88.5 g propene, and 12 g ethylene is heated with stirring to 45° and 0.8 mole VOCl3 in 50 mm heptane is added. After a spontaneous temp. increase to 65°, 150 cm3 MeOH is added to stop the reaction. The polymn. mixt. is purified and coagulated to give 43 g product contg. 66.4% amorphous EPR (85% propene).

Bibliographic Information

Bonding ethylene copolymers to fibers. Natta, Giulio; Severini, Febo; Portolani, Augusto; Tavazzani, Carlo. (Montedison S.p.A., Italy). U.S. (1975), 10 pp. CODEN: USXXAM US 3860442 19750114 Patent written in English. Application: US 72-245289 19720418. Priority: . CAN 82:172371 AN 1975:172371 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)). (u 489 + u 544).

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
US 3860442	A	19750114	US 1972-245289	19720418
Priority Application				
US 1969-876184	A1	19691128		

Abstract

Resorcinol-HCHO copolymer (I) adhesives contg. EPDM or ethylene-propene rubber grafted with a water-sol. vinyl or vinylidene acid, e.g. acrylic acid (II) or methacrylic acid, improve the bonding strength between fibers and EPDM or ethylene-propene rubbers. Thus, an emulsion contg. ethylene-propene rubber 100, PhMe 900, Phenopon Co 436 (III) 12, and H2O 900 g was concd. to 37% solids, stirred (170 g) with Bz2O2 1.35, III 1.3, and II 12.1 g for 6 hr to give 209 g homogenous latex contg. 10.6% bound II. Rayon fabric was dipped in an aged mixt. of 83 g of the latex and 129 g of aq. I soln., dried, and vulcanized between 2 layers of a typical ethylene-propene rubber compn. to give a laminate with bonding strength 6.3 kg/cm at 20°, compared with 0.8 kg/cm at 23° for an adhesive contg. unmodified ethylene-propene rubber.

Bibliographic Information

Polymeric composition comprising poly(vinyl chloride). Natta, Giulio; Beati, Enrico; Severini, Febo; Toffano, Silvio. (Montecatini Edison S.p.A.). U.S. (1974), 6 pp. CODEN: USXXAM US 3812204 19740521 Patent written in English. Application: US 72-248592 19720428. Priority: . CAN 81:170461 AN 1974:570461 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)). (u 460)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
US 3812204	A	19740521	US 1972-248592	19720428
Priority Application				
US 1964-375663	A2	19640616		
US 1970-12462	A1	19700219		

Abstract

Vinyl chloride graft polymn mixts. giving impact-resistant moldings consisted of 4-20% graft polymer, 0.5-5% ungrafted backbone polymer, such as EPR, 1-butene-ethylene copolymer [25087-34-7], and cyclooctadiene-ethylene-propylene copolymer [52892-55-4], and 75-95.5% PVC [9002-86-2], the total backbone polymer content (grafted and nongrafted) in the compn. being 2-25%. For example, 30 g EPR (45% ethylene), 200 cm3 water, 4 g poly(vinyl alc.), and 350 cm3 liq. vinyl chloride were stirred for 18 hr, heated at 70.deg. for 2 hr, treated with 600 cm3 water and 1.2 g Bz2O2, and stirred at 70.deg. for 14 hr, and the polymer mixt. was stabilized with 1% di-Bu laurate and 3% dibasic Pb stearate, calendered at 150-60.deg., and molded at 160.deg. to give a molding with Izod impact strength 12.4 kg-cm/cm notch at 0.deg. and Rockwell R hardness 100, compared with 4.8 at 23.deg. and 100, resp., for PVC.

Bibliographic Information

High-molecular-weight, crystalline, head-tail connected, linear poly(α -methacrylonitrile). Natta, Giulio; Mazzanti, Giorgio; Dall'Asta, Gino. (Montecatini Edison S.p.A.). Ger. (1974), 7 pp. Division of Ger. 1,520,242 (See Belg. 611,491, CA 57;10048a). CODEN: GWXXAW DE 1795630 19740124 Patent written in German. Application: DE 61-1795630 19611212. Priority: . CAN 81:92248 AN 1974:492248 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)). (u 347)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
DE 1795630	B2	19740124	DE 1967-1795630	19611212
DE 1795630	C3	19740822		
Priority Application				
IT 1960-21506	A	19601214		

Abstract

The title poly(methacrylonitrile) (I) [25067-61-2], m. 200-60.deg., is prepd. by polymn. in hydrocarbons at 0-100.deg. with Be or Mg (halo)alkyl catalysts. Thus, addn. over 30 min of 10 g methacrylonitrile to 410 mg diethylmagnesium [557-18-6] in 100 ml PhMe stirred at 70.deg. and stirring 6 hr at 70.deg. give 9.5 g I, m. 220-50.deg., insol. in most org. solvents but swollen by PhCN, AcPH, PhNO2, and DMF (which remove a small amt. of amorphous I), highly resistant to acids but sapond. by 50% KOH, which can be molded at 240-60.deg..

Bibliographic Information

Terpolymers of ethylene, propylene, and 1,3-butadiene. Natta, Giulio; Rebaudo, Giovanni; Beati, Enrico. (Politecnico de Milano; Montecatini Edison S.p.A.). Ital. (1970), 11 pp. CODEN: ITXXAX IT 879026 19701102 Patent written in Italian. Application: IT 19691211. CAN 81:79116 AN 1974:479116 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)). (u 1223)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
IT 879026		19701102	IT	19691211

Abstract

A catalyst system contg. Et3Al [97-93-8], VOCl3 [7727-18-6] or VCl4 [7632-51-1], and trichloroacetic acid [76-03-9] was used in the manuf. of S-vulcanizable ethylene-propylene-1,3-butadiene copolymer (I) [25189-22-4] with a predominantly trans-1,4-configuration and mol. wt. >20,000. Thus, butadiene 21, C3H6 86, and C2H4 17 g were mixed in 150 ml heptane at 60.deg.. Et3Al (1 g) and 0.36 g VOCl3 were mixed 5 min in 50 ml heptane and 1.25 g Cl3CCO2H was added. The catalyst mixt. was added to the monomer mixt. and polymn. was carried out in 30

min. The terpolymer obtained was compounded with vulcanizing additives and vulcanized in 60 min at 150.deg. to give a rubber which was 91% insol. in boiling heptane after 96 hr.

Bibliographic Information

Cyclopentene homopolymers. Natta, Giulio; Dall'Asta, Gino; Mazzanti, Giorgio. (Montecatini Edison S.p.A.). Fr. Addn. (1972), 7 pp. Addn. to Fr. 1,394,380 (CA 68;3656h). CODEN: FAXXA3 FR 95917 19720310 Patent written in French. Priority: IT 65-23518 19651020. CAN 79:32401 AN 1973:432401 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)). (U 465/A)

Patent Family Information

Patent No.	Kind	Date	Application No.	Date
FR 95917		19720310		
Priority Application				
IT 1965-23518		19651020		

Abstract

Mainly trans polypentenamer [ring-opened poly(cyclopentene)] [25587-79-5] was prepd. by polymg. 300-3000:1 moles monomer/mole tungsten dichloride [13470-12-7] at -30.deg. or -20.deg. in the presence of 4:3 molar ratio aluminum trichloride [7446-70-0]-WCl2 mixt., 0.1-5 moles/mole WCl2 benzoyl peroxide [94-36-0], and EtnAlX3-n (X = Cl or Br, n = 1, 1.5, 2). Thus, the polymer was prepd. using 10 cm3 cyclopentene, 600:1 molar ratio monomer/WCl2, 0.082 g WCl2-4/3 AlCl3 mixt., 0.188 mmole ethylaluminum dichloride [563-43-9], and 0.094 mmole Bz2O2 at -20.deg.. The polymer contained 27:63% cis-trans double bonds.

Bibliographic Information

Filament-forming regular linear head-to-tail polymers of unsaturated hydrocarbons. Natta, Giulio; Pino, Piero; Mazzanti, Giorgio. (Montecatini Edison S.p.A.). U.S. (1973), 8 pp. CODEN: USXXAM US 3715344 19730206 Patent written in English. Application: US 55-514099 19550608. Priority: . CAN 78:148866 AN 1973:148866 CAPLUS (Copyright (C) 2007 ACS on SciFinder (R)). (U 59+U 63)

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Patent No.	Kind	Date	Application No.	Date
US 3715344	A	19730206	US 1955-514099	19550608
DE 1794361	B1	19730719	DE 1967-1794361	19550604
DE 1794361	C2	19740228		
SE 316903	B	19691103	SE 1967-6302	19550608
SE 317192	B	19691110	SE 1966-12870	19550608
SE 322052	B	19700323	SE 1967-9251	19550608
US 4125698	A	19781114	US 1958-770484	19581029
US 6365687	B1	20020402	US 1992-883912	19920512
Priority Application				
IT 1954-24227	A	19540608		
IT 1954-25109	A	19540727		
DE 1954-Z4348	A	19540803		
US 1955-514097	B3	19550605		
US 1958-710840	B1	19580124		
US 1983-498699	B1	19830527		
US 1986-906600	B1	19860910		
US 1990-607215	B1	19901029		
US 1991-719666	B1	19910624		