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(54) **Insulation compositions of moisture cross-linked polyethylene (XPLE) for use in low tension power cables.**

(57) To reduce contraction of the insulation which may occur at an operating temperature of 130°C, the polyethylene that is usually employed for the application of the "Sioplas" cross-linking process is modified with polypropylene (PP).

The polypropylene presents a softening point between 155 and 165°C, which guarantees, up to 130°C, the dimensional stability of the extruded material.

The mixture of the PP with low density polyethylene (LDPE) or low density linear polyethylene (LLDPE) or co-polymeric polyethylene of ethylene vinyl acetate (EVA) in an adequate concentration is the solution for the contraction problem.



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EUROPEAN SEARCH REPORT

Application Number
EP 93 30 7197

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
X	GB-A-2 181 437 (KABELMETAL ELECTRO GESELLSCHAFT) 23 April 1987 * page 2, line 10 - line 12 * * page 2, line 59 - line 64; claims 1-22 * ----	1-8	H01B3/44
X	EP-A-0 328 051 (DU PONT DE NEMOURS) 16 August 1989 * page 1, line 1 - line 32 * * page 3, line 6 - line 11; claims 1-5 * ----	1-8	
X	DE-A-35 20 106 (DYNAMIT NOBEL) 11 December 1986 * page 13, line 14 - line 19; claims 1-15 * ----	1-8	
X	EP-A-0 426 073 (UNION CARBIDE) 8 May 1991 * page 4, line 49 - line 51; claims 1-23 * ----	1-8	
X	WO-A-85 04618 (UNION CARBIDE) 24 October 1985 * page 22, paragraph 1; claims 1-16 * -----	1-8	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			H01B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 June 1994	Examiner Stienon, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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