

Title (en)  
Dielectric composition having an improved gas absorption

Title (de)  
Dielektrische Zusammensetzung mit verbesserter Absorption von Gas

Title (fr)  
Composition dielectrique ayant une absorption de gaz amelioree

Publication  
**EP 1059643 A1 20001213 (FR)**

Application  
**EP 00401546 A 20000531**

Priority  
• FR 9907143 A 19990607  
• FR 0001880 A 20000216

Abstract (en)  
A small quantity of polyaryllkane compounds is introduced to improve the gassing properties of the dielectric composition. A dielectric oil mixture comprises 99 - 70% of a mineral oil and 1 - 30% of a polyaryllkane composition selected from :- -compositions (I) consisting of a mixture of products of formula (A) :- in which  $n_1$  and  $n_2 = 0$  or 1, containing products(A) such that  $n_1 + n_2 = 0$ , and products (A) in which  $n_2 = 1$ ; and products(B) of formula :- -compositions (II) consisting of a mixture of two products (C) and (D) where :- product (C) is a mixture of isomers of formula :- in which  $p_1$  and  $p_2 = 0, 1$  or 2, with  $p_1 + p_2$  is less than or equal to 3; and product (D) is a mixture of isomers of formula :-  $p_{<1>1}, p_{<2>1}$  and  $p_4 = 0, 1$  or 2 and  $p_{<1>1} + p_{<2>1} + p_{<1>2} + p_{<2>2} + p_3 + p_4 + p_5 = 2$  or less -compositions(III) comprising a mixture of two products (A1) and (A2) such that :- (A1) is a mixture of isomers of formula :-  $m_1$  and  $m_2 = 0, 1$  or 2, and  $m_1 + m_2$  is less than or equal to 3; (A2) is a mixture of isomers of formula :-  $q_1$  and  $q_2 = 0, 1$  or 2 and  $q_1 + q_2$  is less than or equal to 3; At least one of compounds (A1) and (A2) is an isomer having three benzene nuclei; and -compositions(IV) comprising two products (A1) and (A2) with the addition of a compound (E1), (E2) or (E3) as follows :- (E1) is a mixture of isomers of formula :-  $r_{<1>1}, r_{<2>1}$  and  $R_4 = 0, 1$  or 2;  $r_{<1>2}, r_{<2>2}, r_3, r_{<1>3}$  and  $r_5 = 0$  or 1; and  $r_{<1>1} + r_{<2>1} + r_{<1>2} + r_{<2>2} + r_3 + r_{<1>3} + r_4 + r_5$  is less than or equal to 2;  $R_1$  and  $R_2 = H$ ; (E2) is an isomer or isomer mixture of formula (E1), save that  $R_1$  and  $R_2$  are Me and coefficients  $r$  are replaced by  $s$  of similar significance; (E3) is an isomer or isomer mixture of formula(E1) save that  $R_1$  and  $R_2$  are different and represent H or Me and coefficients  $r$  are replaced by  $t$  of similar significance;

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• [X] GB 1579679 A 19801119 - BRITISH PETROLEUM CO  
• [A] EP 0443899 A1 19910828 - ATOCHEM ELF SA [FR]  
• [A] EP 0544571 A1 19930602 - ATOCHEM ELF SA [FR]  
• [A] EP 0444989 A1 19910904 - ATOCHEM ELF SA [FR]  
• [A] EP 0446086 A1 19910911 - ATOCHEM ELF SA [FR]  
• [A] EP 0704861 A1 19960403 - ATOCHEM ELF SA [FR]

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