

Title (en)
REINFORCING GLASS YARNS WITH LOW DIELECTRIC CONSTANTS

Title (de)
VERSTÄRKUNGSGLASFASERN MIT NIEDRIGER DIELEKTRIZITÄTKONSTANTE

Title (fr)
FILS DE VERRE DE RENFORCEMENT A FAIBLES CONSTANTES DIELECTRIQUES

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Application
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Priority

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Abstract (en)
[origin: WO02094728A1] The invention concerns a glass yarn whereof the composition comprises the following constituents in the limits defined, expressed in weight percentages: SiO₂ 50 to 60 %, preferably SiO₂ \geq 52 % and/or SiO₂ \leq 57 %; Al₂O₃ 10 to 19 %, preferably Al₂O₃ \geq 13 % and/or Al₂O₃ \leq 17 %; B₂O₃ 16 to 25 %; P₂O₅ 0.5 to 4 %; Na₂O \leq 1.5 %, preferably Na₂O \leq 0.8 %; K₂O \leq 1.5 %, preferably K₂O \leq 0.8 %; R₂O \leq 2 %, preferably R₂O \leq 1 %; CaO \leq 10 %; MgO \leq 10 %; F \leq 0 to 2 %; RO 4 to 15 %, preferably RO \geq 6 % and/or RO \leq 10 % ; miscellaneous \leq 3 % ; wherein R₂O = Na₂O + K₂O + Li₂O and RO = CaO + MgO. The dielectric properties of said glass compositions are particularly advantageous.

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