

Title (en)
PBT AUTOMOTIVE YARN AND METHOD OF MANUFACTURING THEREOF

Title (de)
PBT-KRAFTFAHRZEUGGARN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
FIL AUTOMOBILE PBT ET SON PROCÉDÉ DE FABRICATION

Publication
EP 4050136 A1 20220831 (EN)

Application
EP 21167182 A 20210407

Priority
US 202117185473 A 20210225

Abstract (en)
The present disclosure discloses a high resilience and stain resistant bulked continuous filament yarn. The yarn comprises a plurality of continuous filaments of polybutylene terephthalate (PBT), wherein the polybutylene terephthalate (PBT) has intrinsic viscosity in the range of 0.8 to 1.3. The yarn is obtained by a process comprising melt spinning of the plurality of continuous filaments of PBT; extrusion of the plurality of continuous filaments; quenching of the extruded filaments; drawing of the quenched filaments; texturizing of the drawn filaments; cooling of the texturized filaments, overfeeding of the cooled-texturized filaments; and winding of the overfeed filaments with or without tangling for obtaining the high resilience and stain resistant bulked continuous filament yarn. The high resilience and stain resistant bulked continuous filament yarn has a stain resistance rating of more than 3 and a hexapod rating of 2 or more after 12000 cycles.

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Citation (search report)
• [XII] US 4877572 A 19891031 - CLARKE PETER G [GB], et al
• [XII] EP 0767846 A1 19970416 - DU PONT [US]
• [XII] US 4159617 A 19790703 - ALLAN JOHN T

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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