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(54) Title: PROCESS FOR MANUFACTURING A SURFACE-TREATED COMPACTED MATERIAL PROCESSABLE ON A SINGLE SCREW PLASTICS CONVERSION EQUIPMENT

(57) Abstract: The present invention relates to the field of processing thermoplastic polymers, particularly the present invention relates to a process for manufacturing compacted material suitable for the use in thermoplastic polymers without a compounding step, comprising the steps of a) providing at least one primary powder material; b) providing at least one molten surface treatment polymer; c) simultaneously or subsequently feeding the at least one primary powder material and the at least one molten surface treatment polymer into the high speed mixer unit of a cylindrical treatment chamber; d) mixing the at least one primary powder material and the at least one molten surface treatment polymer in the high speed mixer; e) transferring the mixed material obtained from step d) to a cooling unit, as well as the compacted material obtained by this process and its use in thermoplastic polymers.



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