



Solid-State Shear Pulverization: A New Powder Technology for Recycled and Virgin Polymeric Materials (Hardback)

By Klementina Khait, Stephen H. Carr, Martin H. Mack

Technomic Publishing Co., U.S., United States, 2001. Hardback. Book Condition: New. 231 x 163 mm. Language: English . Brand New Book. From the Preface This book is the first extended look at a new and multifaceted polymer processing technology that has already been discussed in numerous articles. Called Solid-State Shear Pulverization (S3P), this innovative process produces polymeric powders with unique physical properties not found in the output of conventional size-reduction methods . This technology, which utilizes a pulverizer based on a modified co-rotating twin-screw extruder, has profound implications for both the creation of new polymer blends and recycling of plastic and rubber waste. Unlike [earlier processes] where polymers are melted prior to pulverization, pulverizing mixtures of polymers with the S3P process does not involve melting. By contrast, S3P maintains polymers in the solid state and avoids the additional heat history that occurs during [other processes], which can be detrimental to the physical properties of pulverized materials. The research and development of the S3P technology has grown significantly since 1990 from the development of a new plastics recycling process to a much broader polymer processing method that allows intimate mixing of polymers with very different viscosities, sold-state dispersion of additives, including...



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