CREATING TOMORROW’S SOLUTIONS

PLASTICS | PERFORMANCE ADDITIVES

TAKE YOUR THERMOPLASTIC ELASTOMERS TO THE NEXT LEVEL
GENIOPLAST® PELLET S, PELLET P PLUS AND PELLET 345

Three grades for all your needs: GENIOPLAST® Pellet S provides solutions for technical applications. In addition, GENIOPLAST® Pellet P Plus is suitable for food-contact applications. GENIOPLAST® Pellet 345 is a pelletized silicone copolymer and has been specifically designed for TPU (thermoplastic polyurethane) applications.
Thermoplastic elastomers consist of styrene block copolymers, polyolefins blends, elastomeric alloys, thermoplastic polyurethanes, copolyester and polyamides. Due to the unique combination of “thermoplastic” and “elastomeric” properties, these materials are often used in applications such as automotive parts, shoe soles and medical devices.

GenioPlast® Pellet S and Pellet P Plus for Lower Friction and Better Abrasion Resistance of TPEs
Styrene based TPEs (SBS, SEBS) and TPUs are widely used for shoe sole applications. Here, GenioPlast® Pellet S helps to improve abrasion and to modify friction while not negatively contributing to adhesion of the outer sole to the inner sole and fabric. GenioPlast® Pellet S and Pellet P Plus are also successfully applied in TPEs for flooring applications and for medical devices. The following diagrams illustrate how GenioPlast® Pellet S improves processing and surface properties in different TPEs.

GenioPlast® Pellet 345 for Better Mold Release and for Soft Touch of TPU
GenioPlast® Pellet 345 is a pelletized silicone copolymer and has been specifically designed for TPU applications. When 1 – 2% of it is applied in TPU compounds, mold release properties can be improved and stickiness can be significantly reduced. If added at 10% and higher, GenioPlast® Pellet 345 reduces shore hardness and provides a smooth surface and unique soft touch properties.

Additives
- GenioPlast® Pellet
- GenioPlast® Pellet P Plus (food compliant)
- GenioPlast® Pellet 345

Dosage
1 – 10%

Applications
- Shoe soles
- Automotive parts
- Medical devices
- Consumer electronics and wearables

Key Benefits
- Lower friction
- Improved abrasion resistance
- Soft and dry touch and feel
- Better flow
- Higher throughput
The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies’ raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties’ rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.