

DIABETES MANAGEMENT MARKET

PBT Resin for Medical Applications

OUTSTANDING
MATERIAL
PROPERTIES

Good chemical resistance

Wear resistance

Material stability

Custom colorable



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MEDICAL-GRADE PBT RESIN

Application in Drug Delivery and Surgical Devices

Medication Injection &
Surgical Instrument

Blood Glucose Meter
Housings

Insulin Pen Housings and
internals

Insulin Pumps

- Dimensional Stability
- Good toughness
- Chemical resistance
- Colorability



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INNOVATIVE MEDICATION, EMPOWERING LIVES

Convenient Medication for a Healthier Future

High-Quality Medical-Grade PBT for Equipment Upgrade

A new ultra-high liquidity PBT resin for inhalers, auto-injectors, and pre-filled insulin pens. This material offers an excellent balance of flowability, friction performance, and mechanical strength, enabling medical device manufacturers to reduce trigger force, enhance patient convenience, and meet the demand for eco-friendly materials.



As the healthcare industry evolves, innovative drug delivery devices are transforming patient management and treatment.

Cutting-edge
Technology Needed

Innovative Drug Delivery Devices Enhancing Patient Convenience, Safety, and Compliance.



Pharmaceutical Kit

Material Proposal: A wear-resistant and transparent compound that facilitates the observation of the medication.

Benefits: Abrasion Resistant Compounds that are transparent for viewing medication level.



Component Housing

Material Proposal: PC or PBT composites that offer impact resistance to protect the pen's mechanical components.

Benefits: Durable, lightweight, colorable, and suitable for laser marking.

Innovative drug delivery devices are revolutionizing patient care. Smart pill dispensers ensure precise dosages, auto-injectors simplify self-administration, and wearable systems with connected inhalers provide real-time health monitoring, reducing hospital visits and enhancing.

If you have any questions or feedback, please contact your local Star Plastics representative or reach out to us at 304.273.0352, sales@starplastics.com and Ashley.gao@starplasticssh.com