

PTT COMPOUNDS (RTP 4700 SERIES)

Customized Polytrimethylene Terephthalate Thermoplastics From RTP Company

Quick Information

- ▶ Similar to PBT and PET in physical properties and processing characteristics
- ▶ More cost effective than PBT or PET
- ▶ Alloyable with other resins, such as polycarbonate

Imagine a thermoplastic compound that offers performance and processing properties similar to PBT and PET. One that provides significant cost advantages over PBT in numerous thermoplastic applications. At RTP Company, we've not only imagined it, we've made it a reality with PTT (Polytrimethylene Terephthalate) Compounds.

Currently, PTT such as Shell Chemicals' Corterra™ is used in the fiber (clothing and carpet) and film industries. Recognizing its superior balance of properties and its low cost, RTP Company is leading the way in compounding PTT for engineered thermoplastics applications.

The new RTP 4700 Series balances the physical properties of PET with the processing characteristics of PBT. PTT Compounds offer:

- Strength, stiffness and high heat deflection temperatures of PET
- Low melt/mold temperatures and wide processing window of PBT

- Basic polyester benefits of dimensional stability, electrical insulation, and chemical resistance

- Cost savings

To meet the unique demands of your application, RTP Company engineers can customize your PTT Compound to incorporate wear additives, flame retardants, conductives, glass or carbon fibers, and/or colors.

Specific new opportunities for PTT Compounds include electronic connectors, switches, plugs, housings (appliances, audio equipment, lighting systems, business machines), snap-fit parts for automobiles or computers, knobs, and keyboards. Key markets include existing PBT (or PET) resin and alloy applications where aesthetics, cost, and/or performance are insufficient.

PTT Compounds from RTP Company...another innovation from the leader in specialty compounding.



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The Leader in Specialty Compounding

Manufacturing Facilities:

Winona, MN
South Boston, VA
Beaune, France
Fort Worth, TX
Indianapolis, IN
Singapore



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PTT Compounds Offer a Better Balance of Processability, Physical Properties, and Cost Than PBT and PET Compounds

Property	PTT Compound Characteristics
Mechanical Strength and Toughness	Better tensile and flexural strength than PBT.
Aesthetics	Molds with a good surface finish. Due to its translucence, PTT has improved colorability over PBT.
Chemical Resistance	Similar chemical resistance to PBT and PET.
Moisture Absorption	Lower moisture absorption than PET, PBT and nylon.
Temperature Resistance	Similar glass transition temperature to PBT.
Electrical Insulation	Dielectric properties (volts/mil) similar to PET (530-550). Better than PBT (400).
Cost	Lower than PBT compounds.



Representative data sheets for PTT Compounds (RTP 4700 Series) can be found on our website at www.rtpcompany.com.

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