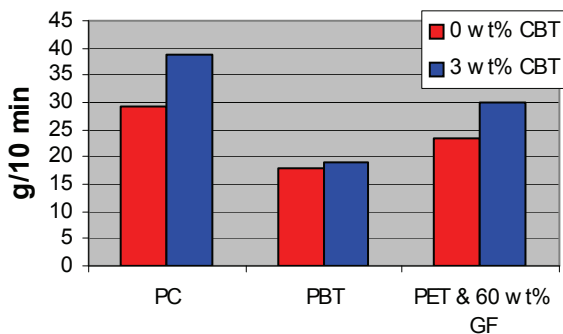


CBT[®] 100 Resin for Flow Enhancement

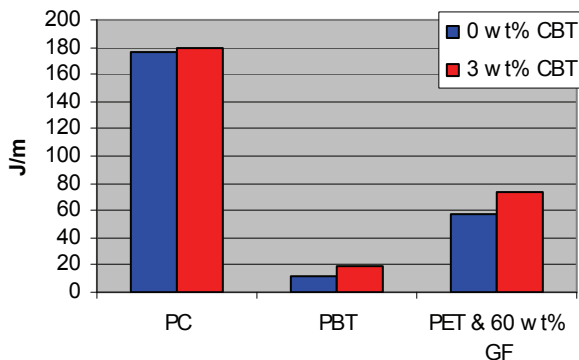
CBT[®] 100 resin has a low melt viscosity, making it a useful additive for other plastics. The unique chemical composition of its oligomers enables enhanced melt flow performance and uniform dispersion with minimal effect on mechanical properties. Compatible with amorphous, semi-crystalline and crystalline resins, CBT resin delivers improved processing performance for PC, polyester thermoplastics (PET, PBT, PCT, etc.), nylons, acetals (POM), polyolefins, polyphenylene ethers, PVC, ABS, SAN and PMMA. Similar benefits are observed for many blends and elastomers.

Advantages:

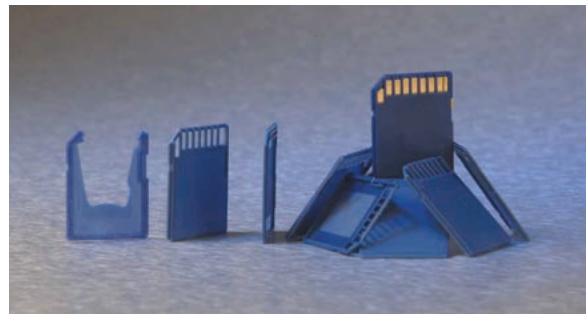
- Improves the melt flow with minimal effect on mechanical properties
- Achieves freedom of mold design with thinner or larger parts, faster cycle times, reduced residual stress, and less warping
- Allows increased filler or glass loading and improved dispersion
- Decreases energy consumption and enhances throughput
- Reduces processing temperatures



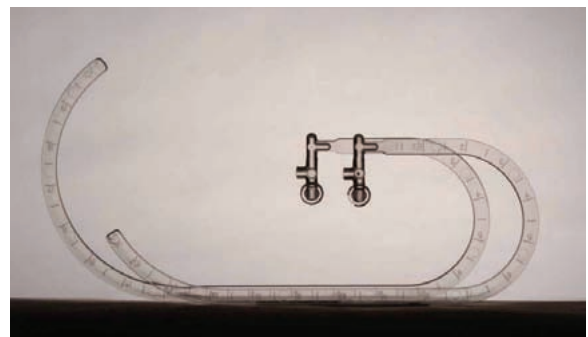
Melt flow rate increases with 3wt% CBT



Impact strength increases with 3wt% CBT



On left, polycarbonate memory card housing (0.2 mm thick) without CBT 100. All others with 3 wt% CBT 100.



PC/CBT improved melt flow, clarity retained.



Teijin Panlite L1225 Z: PC with 40% GF parts on right made with CBT.

FDA compliant up to 3 wt% in PET, PBT, PETG polymers for aqueous and low alcoholic food contact applications. Petition for EU food contact compliance in process.

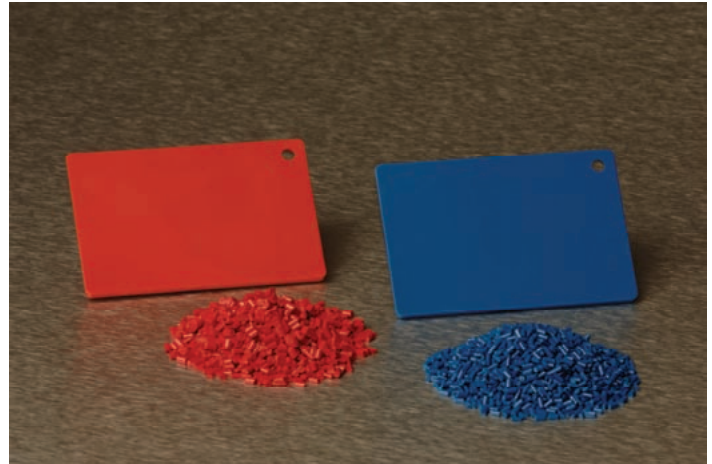
CBT[®] 100 Resin in Masterbatch Concentrates

CBT 100 resin's low melt viscosity makes it an excellent base resin for masterbatch concentrates. Broad compatibility with a wide range of thermoplastics, copolymers, elastomers, and fillers enables Cyclics CBT 100 resin to be a versatile solution for multiple compounding challenges. The low viscosity of the resin promotes an extremely effective dispersion aid and carrier.

In addition to excellent filler wet-out, the low melt viscosity enables higher loadings with no dusting for safer and easier handling. Plus, CBT resin has an extensive shelf life at room temperature. Some of the fillers and fiber materials compatible with CBT resin include glass fiber and beads, carbon fiber, calcium carbonate, wollastonite, talc, flame retardants, fumed silica, pigments, stabilizers, and antioxidants.

Advantages:

- Higher loadings of colorants and additives
- Excellent dispersion
- Good compatibility with a broad range of resins
- Good thermal stability up to 340°C
- Improved handling for powder additives



PC color chips using CBT color pellets



CBT used as carrier in masterbatch: 50wt% Nanomer[®] concentrate



CBT used as carrier in masterbatch: 80wt% TiO₂ concentrate



90% ultra fine talc, 10% CBT resin

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