

TECHNICAL DATA SHEET

METOL 100 CBT OLIGOMER POWDER (UNCATALYSED)



Product Description

METOL 100 is a low melt temperature (140°C), low melt viscosity (30 cPS) thermoplastic powdered oligomer, based on PBT, which makes it a very useful flow enhancement additive for other polymers and resins and an excellent base for masterbatch concentrates.

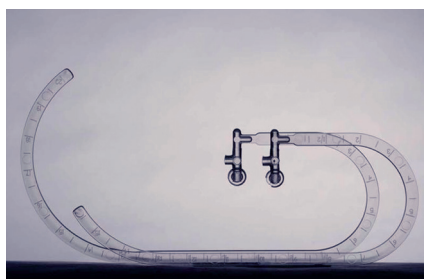
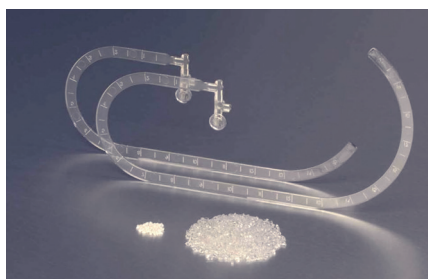
Flow Additive

The unique chemical composition of METOL enhances the melt flow performance of a wide range of amorphous, semi-crystalline and crystalline polymers (including Polycarbonate, PET, Nylons, ABS etc) with minimal effect on mechanical properties. The main advantages of adding 3% METOL oligomer to other thermoplastics, includes:

- Up to 30% increase in polymer melt flow index*
- Ability to mould thinner and/or larger parts with faster cycle times, reduced residual stress and less warping
- Increased filler or fibre loading and increased dispersion
- Reduced processing temperatures and energy consumption
- Increased production rate and reduced part cost.

METOL 100 CBT Oligomer Powder (Flow Additive)

Material/Properties	Lexan® 121	Lexan® 121 + 5% METOL CBT 100
Melt Flow Rate (300°C/1,2kg) [g/10min]	17.9	25.7
Change of Melt Flow	-	44%
Spiral Flow Length	38.1cm (15.75in)	
Change of Spiral Flow	-	27%



Comparison PC-Samples:

- Improved melt flow
- Clarity retained

INFINITE APPLICATIONS, ENDLESS POSSIBILITIES



Wind



Marine



Utilities



Sports



Automotive



100% Recyclable

TECHNICAL DATA SHEET

METOL 100 CBT OLIGOMER POWDER (UNCATALYSED)



Masterbatch Concentrate

METOL 100's low melt viscosity makes it an excellent base for masterbatch concentrates. The low melt viscosity enables high filler loadings to be achieved with excellent filler wet out. Typical fillers include: short glass and carbon fibres, calcium carbonate, wollastonite, nano clays, flame retardants, talc, pigments, stabilisers and antioxidants etc. The main advantages of METOL masterbatches include:

- Higher filler loadings
- Excellent dispersion
- Good compatibility with a broad range of thermoplastic polymers and resins
- Good thermal stability upto 340C°
- Improved handling for polymer additives.

Storage and Handling

METOL 100 powder can be handled by the same methods used for other polymer powders and should be stored in a cool, dry place. Companies should use good industrial hygiene practices and provide adequate ventilation to prevent an accumulation of airborne powder.

Further information is provided on the METOL 100 MSDS datasheet.

INFINITE APPLICATIONS, ENDLESS POSSIBILITIES



Wind



Marine



Utilities



Sports



Automotive



100%
Recyclable