

### Product Description

METOL Ltd offer a number of revolutionary range of recyclable, engineered thermoplastic plug assist and tooling products with excellent surface finish and high service temperature (150°C). Due to METOL's low melt viscosity, high concentrations of fillers such as glass spheres, metallic powders, talc etc can be mixed and incorporated into the METOL polymer and cast into tooling block for plug assist or machined mould tools.

METOL tooling products offer excellent machinability and surface finish coupled with excellent chemical resistance, little or no residual stress, high service temperature, little or no dust formation or odour emissions during casting. As there is little or no exotherm created during the polymerisation process it is possible to cast large thick section parts with excellent mechanical properties notably in terms of impact resistance.

### METOL Casting and Tooling Products

- Low thermal conductivity syntactic foam materials for plug assist thermoforming market
- High abrasion resistant METOL copolymer filled METOL for core box applications
- Aluminium filled METOL for high heat distortion temperature (150°C) tooling applications
- Calcium carbonate filled METOL for high abrasion resistant tooling block for modelling applications.

### INFINITE APPLICATIONS, ENDLESS POSSIBILITIES



Wind



Marine



Utilities



Sports



Automotive



100% Recyclable



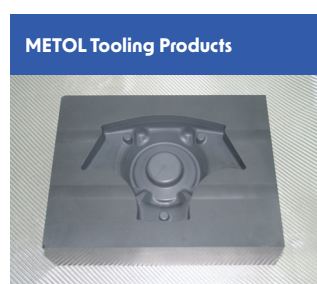
**METOL Syntactic foam with glass microspheres**

- **Advantages:**
  - Excellent thermal insulation
  - Low thermal expansion
  - High HDT
  - Easy handling.



**METOL Tooling Products - Machinability**

- **Tooling blocks:** Milled at 14,000 rpm
- **Excellent machinability:** Using correct milling parameter
- **Higher rotation speed:** Possible with sharp and fast moving tools.



**METOL Tooling Products**

- **Sample Application:** Prepreg processing tooling block
- **Composition:** Highly mineral CaCO<sub>3</sub> filled
- **HDT:** 210°C
- **CTE:** 42 x 10<sup>-6</sup>/K<sup>-1</sup>



**METOL Mineral Filled Resin Cast Parts**

- **Calcium Carbonate Filled METOL (65%Wt CaCO<sub>2</sub>):**
  - Neat PBT
  - Metal Insert
  - Cast Gear.

### Advice and Assistance

Metol Ltd's experienced chemists and engineers are available to assist companies develop materials, processes and products to suit their applications.

**Call or contact us today for more information.**

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