

# TRIBOCOMP® PBT CF30 TS0

Polybutylene Terephthalate

EPIC Polymers

Message:

TRIBOCOMP®PBT CF30 TS0 is a polybutene terephthalate (PBT) product, which contains 15% ptfe fiber and 30% carbon fiber reinforced materials. It is available in Europe. The main characteristics are: lubrication.

| General Information                          |                                                        |                   |             |
|----------------------------------------------|--------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                       | PTFE fiber, 15% filler by weight                       |                   |             |
|                                              | Carbon fiber reinforced material, 30% filler by weight |                   |             |
| Additive                                     | PTFE lubricant (15%)                                   |                   |             |
| Forms                                        | Particle                                               |                   |             |
| Physical                                     | Nominal Value                                          | Unit              | Test Method |
| Density                                      | 1.53                                                   | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow                     | 0.20                                                   | %                 | ISO 294-4   |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.10                                                   | %                 | ISO 62      |
| Mechanical                                   | Nominal Value                                          | Unit              | Test Method |
| Tensile Modulus                              |                                                        |                   | ISO 527-2   |
| 23°C                                         | 19000                                                  | MPa               | ISO 527-2   |
| 90°C                                         | 11500                                                  | MPa               | ISO 527-2   |
| 120°C                                        | 10000                                                  | MPa               | ISO 527-2   |
| Tensile Stress                               |                                                        |                   | ISO 527-2   |
| Fracture, 23°C                               | 140                                                    | MPa               | ISO 527-2   |
| Fracture, 90°C                               | 85.0                                                   | MPa               | ISO 527-2   |
| Fracture, 120°C                              | 75.0                                                   | MPa               | ISO 527-2   |
| Tensile Strain (Break)                       | 2.0                                                    | %                 | ISO 527-2   |
| Flexural Modulus (23°C)                      | 17000                                                  | MPa               | ISO 178     |
| Flexural Stress (23°C)                       | 210                                                    | MPa               | ISO 178     |
| Coefficient of Friction                      |                                                        |                   | ASTM D3702  |
| Dynamic                                      | 0.14                                                   |                   | ASTM D3702  |
| Static                                       | 0.12                                                   |                   | ASTM D3702  |
| Wear Factor                                  | 8.00                                                   |                   | ASTM D3702  |
| Impact                                       | Nominal Value                                          | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)        | 7.0                                                    | kJ/m <sup>2</sup> | ISO 179     |
| Charpy Unnotched Impact Strength (23°C)      | 35                                                     | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                      | Nominal Value                                          | Unit              | Test Method |
| Heat Deflection Temperature                  |                                                        |                   |             |
| 0.45 MPa, not annealed                       | 220                                                    | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                        | 210                                                    | °C                | ISO 75-2/A  |

|                      |               |          |             |
|----------------------|---------------|----------|-------------|
| CLTE - Flow (23°C)   | 1.8E-5        | cm/cm/°C | ISO 7991    |
| Thermal Conductivity | 0.55          | W/m/K    | ISO 22007   |
| Electrical           | Nominal Value | Unit     | Test Method |
| Surface Resistivity  | 1.0E+2        | ohms     | ASTM D257   |

#### Additional Information

The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 120           | °C   |
| Drying Time            | 4.0           | hr   |
| Suggested Max Moisture | 0.10          | %    |
| Rear Temperature       | 220 - 240     | °C   |
| Middle Temperature     | 220 - 260     | °C   |
| Front Temperature      | 230 - 260     | °C   |
| Nozzle Temperature     | 240 - 270     | °C   |
| Processing (Melt) Temp | < 270         | °C   |
| Mold Temperature       | 70.0 - 120    | °C   |

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#### Recommended distributors for this material

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