

# TRIBOCOMP® PA612 GF30 TS0

Polyamide 612

EPIC Polymers

Message:

TRIBOCOMP® PA612 GF30 TS0 is a Polyamide 612 (Nylon 612) product filled with 30% glass fiber and 15% ptfе fiber. It is available in Europe.

| General Information                             |         |                                  |                                       |             |
|-------------------------------------------------|---------|----------------------------------|---------------------------------------|-------------|
| Filler / Reinforcement                          |         | Glass Fiber,30% Filler by Weight |                                       |             |
|                                                 |         | PTFE Fiber,15% Filler by Weight  |                                       |             |
| Forms                                           |         | Pellets                          |                                       |             |
| Physical                                        | Dry     | Conditioned                      | Unit                                  | Test Method |
| Density                                         | 1.43    | --                               | g/cm <sup>3</sup>                     | ISO 1183    |
| Molding Shrinkage - Flow                        | 0.20    | --                               | %                                     | ISO 294-4   |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 0.20    | --                               | %                                     | ISO 62      |
| Mechanical                                      | Dry     | Conditioned                      | Unit                                  | Test Method |
| Tensile Modulus (23°C)                          | 8700    | --                               | MPa                                   | ISO 527-2   |
| Tensile Stress (Yield, 23°C)                    | 135     | --                               | MPa                                   | ISO 527-2   |
| Tensile Strain (Break, 23°C)                    | 3.0     | --                               | %                                     | ISO 527-2   |
| Flexural Modulus (23°C)                         | 8500    | --                               | MPa                                   | ISO 178     |
| Flexural Stress (23°C)                          | 190     | --                               | MPa                                   | ISO 178     |
| Coefficient of Friction                         |         |                                  |                                       | ASTM D3702  |
| vs. Itself - Dynamic                            | 0.31    | --                               |                                       |             |
| vs. Itself - Static                             | 0.25    | --                               |                                       |             |
| Wear Factor                                     | 17      | --                               | 10 <sup>-8</sup> mm <sup>3</sup> /N·m | ASTM D3702  |
| Impact                                          | Dry     | Conditioned                      | Unit                                  | Test Method |
| Charpy Notched Impact<br>Strength (23°C)        | 13      | --                               | kJ/m <sup>2</sup>                     | ISO 179     |
| Charpy Unnotched Impact<br>Strength (23°C)      | 65      | --                               | kJ/m <sup>2</sup>                     | ISO 179     |
| Thermal                                         | Dry     | Conditioned                      | Unit                                  | Test Method |
| Heat Deflection Temperature                     |         |                                  |                                       |             |
| 0.45 MPa, Unannealed                            | 210     | --                               | °C                                    | ISO 75-2/B  |
| 1.8 MPa, Unannealed                             | 195     | --                               | °C                                    | ISO 75-2/A  |
| CLTE - Flow (23°C)                              | 3.0E-5  | --                               | cm/cm/°C                              | ISO 7991    |
| Thermal Conductivity                            | 0.28    | --                               | W/m/K                                 | ISO 22007   |
| Electrical                                      | Dry     | Conditioned                      | Unit                                  | Test Method |
| Surface Resistivity                             | 1.0E+12 | --                               | ohms                                  | ASTM D257   |
| Electric Strength                               | 36      | 32                               | kV/mm                                 | IEC 60243-1 |

|                            |            |      |    |           |
|----------------------------|------------|------|----|-----------|
| Comparative Tracking Index | 500        | 500  | V  | IEC 60112 |
| Extrusion                  | Dry        | Unit |    |           |
| Cylinder Zone 1 Temp.      | 220 to 250 |      | °C |           |
| Cylinder Zone 2 Temp.      | 220 to 260 |      | °C |           |
| Cylinder Zone 3 Temp.      | 225 to 270 |      | °C |           |
| Cylinder Zone 4 Temp.      | 230 to 280 |      | °C |           |

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