

# TRIBOCOMP® A-3 TS0

Polyamide 66

EPIC Polymers

Message:

TRIBOCOMP® A-3 TS0 is a Polyamide 66 (Nylon 66) product. It is available in Europe.

| General Information                             |        |             |                                       |             |
|-------------------------------------------------|--------|-------------|---------------------------------------|-------------|
| Forms                                           |        | Pellets     |                                       |             |
| Physical                                        | Dry    | Conditioned | Unit                                  | Test Method |
| Density                                         | 1.50   | --          | g/cm <sup>3</sup>                     | ISO 1183    |
| Molding Shrinkage - Flow                        | 0.40   | --          | %                                     | ISO 294-4   |
| Water Absorption<br>(Equilibrium, 23°C, 50% RH) | 1.4    | --          | %                                     | ISO 62      |
| Mechanical                                      | Dry    | Conditioned | Unit                                  | Test Method |
| Tensile Modulus                                 |        |             |                                       | ISO 527-2   |
| 23°C                                            | 10500  | 7900        | MPa                                   |             |
| 90°C                                            | 7100   | --          | MPa                                   |             |
| 120°C                                           | 5500   | --          | MPa                                   |             |
| Tensile Stress                                  |        |             |                                       | ISO 527-2   |
| Yield, 23°C                                     | 205    | 160         | MPa                                   |             |
| Yield, 90°C                                     | 135    | --          | MPa                                   |             |
| Yield, 120°C                                    | 105    | --          | MPa                                   |             |
| Tensile Strain (Break, 23°C)                    | 3.0    | --          | %                                     | ISO 527-2   |
| Flexural Modulus (23°C)                         | 8300   | 6200        | MPa                                   | ISO 178     |
| Flexural Stress (23°C)                          | 280    | 200         | MPa                                   | ISO 178     |
| Coefficient of Friction                         |        |             |                                       | ASTM D3702  |
| vs. Itself - Dynamic                            | 0.23   | --          |                                       |             |
| vs. Itself - Static                             | 0.18   | --          |                                       |             |
| Wear Factor                                     | 11     | --          | 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)        | 19     | --          | 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<br>Temperature                  |        |             |                                       |             |
| 0.45 MPa, Unannealed                            | 255    | --          | °C                                    | ISO 75-2/B  |
| 1.8 MPa, Unannealed                             | 253    | --          | °C                                    | ISO 75-2/A  |
| CLTE - Flow (23°C)                              | 2.9E-5 | --          | cm/cm/°C                              | ISO 7991    |
| Thermal Conductivity                            | 0.29   | --          | W/m/K                                 | ISO 22007   |

| Electrical                 | Dry        | Conditioned | Unit  | Test Method |
|----------------------------|------------|-------------|-------|-------------|
| Surface Resistivity        | 1.0E+12    | --          | ohms  | ASTM D257   |
| Electric Strength          | 35         | --          | kV/mm | IEC 60243-1 |
| Comparative Tracking Index | 500        | --          | V     | IEC 60112   |
| Extrusion                  | Dry        | Unit        |       |             |
| Cylinder Zone 1 Temp.      | 270 to 300 |             | °C    |             |
| Cylinder Zone 2 Temp.      | 270 to 300 |             | °C    |             |
| Cylinder Zone 3 Temp.      | 285 to 300 |             | °C    |             |
| Cylinder Zone 4 Temp.      | 285 to 310 |             | °C    |             |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

