

# Strator® TA-10-4 XC

Polyphthalamide

EPIC Polymers

## Message:

STRATOR® TA-10-4 XC is a Polyphthalamide (PPA) product filled with long carbon fiber. It can be processed by injection molding and is available in Europe.

| General Information                          |                   |                   |                 |
|----------------------------------------------|-------------------|-------------------|-----------------|
| Filler / Reinforcement                       | Long Carbon Fiber |                   |                 |
| Forms                                        | Pellets           |                   |                 |
| Processing Method                            | Injection Molding |                   |                 |
| Physical                                     | Nominal Value     | Unit              | Test Method     |
| Density                                      | 1.36              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow                     | 0.15              | %                 | Internal Method |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.70              | %                 | ISO 62          |
| Mechanical                                   | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus (23°C)                       | 45000             | MPa               | ISO 527-2       |
| Tensile Stress (Yield, 23°C)                 | 320               | MPa               | ISO 527-2       |
| Tensile Strain (Break, 23°C)                 | 0.80              | %                 | ISO 527-2       |
| Flexural Modulus (23°C)                      | 43500             | MPa               | ISO 178         |
| Flexural Stress (23°C)                       | 440               | MPa               | ISO 178         |
| Impact                                       | Nominal Value     | Unit              | Test Method     |
| Charpy Notched Impact Strength (23°C)        | 10                | kJ/m <sup>2</sup> | ISO 179         |
| Charpy Unnotched Impact Strength (23°C)      | 50                | kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                      | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature                  |                   |                   |                 |
| 0.45 MPa, Unannealed                         | 300               | °C                | ISO 75-2/B      |
| 1.8 MPa, Unannealed                          | 285               | °C                | ISO 75-2/A      |
| Electrical                                   | Nominal Value     | Unit              | Test Method     |
| Surface Resistivity                          | 1.0E+2            | ohms              | ASTM D257       |
| Injection                                    | Nominal Value     | Unit              |                 |
| Drying Temperature                           | 120               | °C                |                 |
| Drying Time                                  | 4.0               | hr                |                 |
| Suggested Max Moisture                       | 0.050             | %                 |                 |
| Rear Temperature                             | 320 to 340        | °C                |                 |
| Middle Temperature                           | 320 to 335        | °C                |                 |
| Front Temperature                            | 320 to 335        | °C                |                 |
| Nozzle Temperature                           | 325 to 340        | °C                |                 |
| Processing (Melt) Temp                       | 340               | °C                |                 |
| Mold Temperature                             | 135 to 165        | °C                |                 |

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