

# TRIBIT® 1500G20K

Polybutylene Terephthalate

Samyang Corporation

## Message:

TRIBIT® 1500G20K is a Polybutylene Terephthalate (PBT) product. It is available in Asia Pacific, Europe, or North America.

| General Information                                     |               |                   |             |
|---------------------------------------------------------|---------------|-------------------|-------------|
| Forms                                                   | Pellets       |                   |             |
| Physical                                                | Nominal Value | Unit              | Test Method |
| Specific Gravity                                        | 1.51          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)                | 63            | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                                | 0.20 to 1.2   | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                          | 0.080         | %                 | ASTM D570   |
| Hardness                                                | Nominal Value | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                             | 120           |                   | ASTM D785   |
| Mechanical                                              | Nominal Value | Unit              | Test Method |
| Tensile Strength (Yield)                                | 88.3          | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 2.0           | %                 | ASTM D638   |
| Flexural Modulus                                        | 5200          | MPa               | ASTM D790   |
| Flexural Strength (Yield)                               | 137           | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm)                     | 49            | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 203           | °C                | ASTM D648   |
| CLTE - Flow                                             | 3.0E-5        | cm/cm/°C          | ASTM D696   |
| Electrical                                              | Nominal Value | Unit              | Test Method |
| Volume Resistivity                                      | 1.0E+16       | ohms·cm           | ASTM D257   |
| Dielectric Strength                                     | 21            | kV/mm             | ASTM D149   |
| Dielectric Constant                                     | 3.20          |                   | ASTM D150   |
| Dissipation Factor                                      | 0.020         |                   | ASTM D150   |
| Arc Resistance                                          | 150           | sec               | ASTM D495   |

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