

# TRIBIT® 1700

Polybutylene Terephthalate  
Samyang Corporation

Message:

TRIBIT® 1700 is a Polybutylene Terephthalate (PBT) product. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

| General Information                       |                   |                   |                   |
|-------------------------------------------|-------------------|-------------------|-------------------|
| UL YellowCard                             | E116425-237827    | E121254-220569    | E257054-100069344 |
|                                           | E366374-101723880 |                   |                   |
| Forms                                     | Pellets           |                   |                   |
| Physical                                  | Nominal Value     | Unit              | Test Method       |
| Specific Gravity                          | 1.31              | g/cm <sup>3</sup> | ASTM D792         |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg) | 17                | g/10 min          | ASTM D1238        |
| Molding Shrinkage - Flow                  | 1.4 to 2.3        | %                 | ASTM D955         |
| Water Absorption (23°C, 24 hr)            | 0.10              | %                 | ASTM D570         |
| Hardness                                  | Nominal Value     | Unit              | Test Method       |
| Rockwell Hardness (R-Scale)               | 118               |                   | ASTM D785         |
| Mechanical                                | Nominal Value     | Unit              | Test Method       |
| Tensile Strength (Yield)                  | 53.9              | MPa               | ASTM D638         |
| Tensile Elongation (Break)                | 200               | %                 | ASTM D638         |
| Flexural Modulus                          | 2110              | MPa               | ASTM D790         |
| Flexural Strength (Yield)                 | 76.5              | MPa               | ASTM D790         |
| Impact                                    | Nominal Value     | Unit              | Test Method       |
| Notched Izod Impact (23°C, 3.18 mm)       | 59                | J/m               | ASTM D256         |
| Thermal                                   | Nominal Value     | Unit              | Test Method       |
| Deflection Temperature Under Load         |                   |                   | ASTM D648         |
| 0.45 MPa, Unannealed                      | 155               | °C                |                   |
| 1.8 MPa, Unannealed                       | 60.0              | °C                |                   |
| CLTE - Flow                               | 9.0E-5            | cm/cm/°C          | ASTM D696         |
| Electrical                                | Nominal Value     | Unit              | Test Method       |
| Volume Resistivity                        | 1.0E+16           | ohms · cm         | ASTM D257         |
| Dielectric Strength                       | 17                | kV/mm             | ASTM D149         |
| Dielectric Constant                       | 3.20              |                   | ASTM D150         |
| Dissipation Factor                        | 0.020             |                   | ASTM D150         |
| Arc Resistance                            | 180               | sec               | ASTM D495         |
| Flammability                              | Nominal Value     | Unit              | Test Method       |
| Flame Rating                              | HB                |                   | UL 94             |

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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



WECHAT