

# FRblend® PBT-1301

Polybutylene Terephthalate

Colour Image Plastic Compound Sdn. Bhd. (CIPC)

## Message:

FRblend® PBT-1301 is a glass filled, flame retardant polybutylene-terephthalate compound. The flame retardant system is based on brominated aromatic which is used in thermoplastic systems.

| General Information  |                                    |                   |             |
|--|------------------------------------|-------------------|-------------|
| Filler / Reinforcement   | Glass Fiber                        |                   |             |
| Additive   | Flame Retardant                    |                   |             |
| Features   | Brominated                         |                   |             |
|  | Flame Retardant                    |                   |             |
|  | Good Chemical Resistance           |                   |             |
|  | Heat Stabilized                    |                   |             |
| Uses   | Automotive Applications            |                   |             |
|  | Business Equipment                 |                   |             |
|  | Electrical/Electronic Applications |                   |             |
| Forms  | Pellets                            |                   |             |
| Processing Method  | Injection Molding                  |                   |             |
| Physical   | Nominal Value                      | Unit              | Test Method |
| Specific Gravity   | 1.63                               | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                               | 0.30 to 0.50                       | %                 | ASTM D955   |
| Water Absorption (24 hr)   | 0.060                              | %                 | ASTM D570   |
| Hardness   | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                                      | 118                                |                   | ASTM D785   |
| Mechanical   | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus  | 9500                               | MPa               | ASTM D638   |
| Tensile Strength   | 116                                | MPa               | ASTM D638   |
| Tensile Elongation (Break)                                       | 2.5                                | %                 | ASTM D638   |
| Flexural Modulus   | 8380                               | MPa               | ASTM D790   |
| Flexural Strength  | 181                                | MPa               | ASTM D790   |
| Impact   | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C)                                       | 130                                | J/m               | ASTM D256   |
| Thermal  | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 4.00 mm) | 210                                | °C                | ASTM D648   |
| Flammability   | Nominal Value                      |                   | Test Method |
| Flame Rating (1.60 mm)   | V-0                                |                   | UL 94       |
| Injection  | Nominal Value                      | Unit              |             |

|                    |             |    |
|--------------------|-------------|----|
| Drying Temperature | 80.0 to 100 | °C |
| Drying Time        | 4.0 to 6.0  | hr |
| Rear Temperature   | 230 to 240  | °C |
| Middle Temperature | 235 to 245  | °C |
| Front Temperature  | 240 to 250  | °C |
| Nozzle Temperature | 250 to 260  | °C |
| Mold Temperature   | 80.0 to 120 | °C |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

