

# TECHNO ABS TFX-SBT3

Acrylonitrile Butadiene Styrene

Techno Polymer Co, Ltd.

## Message:

TECHNO ABS TFX-SBT3 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Asia Pacific or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Chemical Resistant

| General Information                                |                          |                   |             |
|--|--------------------------|-------------------|-------------|
| UL YellowCard                                      | E54297-514791            |                   |             |
| Additive   | Flame Retardant          |                   |             |
| Features   | Flame Retardant          |                   |             |
|  | Good Chemical Resistance |                   |             |
| UL File Number                                     | E54297                   |                   |             |
| Processing Method                                  | Injection Molding        |                   |             |
| Physical   | Nominal Value            | Unit              | Test Method |
| Density  | 1.19                     | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)          | 17                       | g/10 min          | ISO 1133    |
| Molding Shrinkage                                  | 0.40 to 0.60             | %                 | ISO 294-4   |
| Hardness   | Nominal Value            | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                        | 90                       |                   | ISO 2039-2  |
| Mechanical   | Nominal Value            | Unit              | Test Method |
| Tensile Stress (Yield)                             | 39.0                     | MPa               | ISO 527-2   |
| Flexural Modulus                                   | 1850                     | MPa               | ISO 178     |
| Flexural Stress                                    | 59.0                     | MPa               | ISO 178     |
| Impact   | Nominal Value            | Unit              | Test Method |
| Charpy Notched Impact Strength                     | 27                       | kJ/m <sup>2</sup> | ISO 179     |
| Thermal  | Nominal Value            | Unit              | Test Method |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 73.0                     | °C                | ISO 75-2/B  |
| Flammability                                       | Nominal Value            |                   | Test Method |
| Flame Rating                                       |                          |                   | UL 94       |
| 2.00 mm, ALL                                       | V-0                      |                   |             |
| 2.50 mm, ALL                                       | 5VB                      |                   |             |
| Injection  | Nominal Value            | Unit              |             |
| Drying Temperature                                 | 75.0 to 85.0             | °C                |             |
| Drying Time  | 2.0 to 5.0               | hr                |             |

|                    |              |    |
|--------------------|--------------|----|
| Rear Temperature   | 180 to 230   | °C |
| Middle Temperature | 180 to 230   | °C |
| Front Temperature  | 180 to 230   | °C |
| Mold Temperature   | 40.0 to 80.0 | °C |

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