

# TECHNIACE® TB-1801

Acrylonitrile Butadiene Styrene + PBT

Nippon A&L; Inc.

## Message:

TECHNIACE® TB-1801 is an Acrylonitrile Butadiene Styrene + PBT (ABS+PBT) material. It is available in Asia Pacific or North America for injection molding. Primary attribute of TECHNIACE® TB-1801: Heat Resistant.

| General Information                               |                        |           |                 |
|---------------------------------------------------|------------------------|-----------|-----------------|
| Features                                          | Medium Heat Resistance |           |                 |
| Forms                                             | Pellets                |           |                 |
| Processing Method                                 | Injection Molding      |           |                 |
| Physical                                          | Nominal Value          | Unit      | Test Method     |
| Density (23°C)                                    | 1.09                   | g/cm³     | ISO 1183        |
| Melt Volume-Flow Rate (MVR) (240°C/10.0 kg)       | 18.0                   | cm³/10min | ISO 1133        |
| Molding Shrinkage                                 | 0.50 to 0.80           | %         | Internal Method |
| Hardness                                          | Nominal Value          | Unit      | Test Method     |
| Rockwell Hardness (R-Scale, 23°C)                 | 112                    |           | ISO 2039-2      |
| Mechanical                                        | Nominal Value          | Unit      | Test Method     |
| Tensile Stress (Yield, 23°C)                      | 45.0                   | MPa       | ISO 527-2       |
| Flexural Modulus (23°C)                           | 2000                   | MPa       | ISO 178         |
| Flexural Stress (23°C)                            | 70.0                   | MPa       | ISO 178         |
| Impact                                            | Nominal Value          | Unit      | Test Method     |
| Charpy Notched Impact Strength (23°C)             | 31                     | kJ/m²     | ISO 179         |
| Thermal                                           | Nominal Value          | Unit      | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 83.0                   | °C        | ISO 75-2/A      |
| CLTE - Flow (23 to 80°C)                          | 9.0E-5                 | cm/cm/°C  | JIS K7197       |
| Injection                                         | Nominal Value          | Unit      |                 |
| Drying Temperature                                | 90.0 to 110            | °C        |                 |
| Drying Time                                       | > 3.0                  | hr        |                 |
| Rear Temperature                                  | 230 to 270             | °C        |                 |
| Middle Temperature                                | 230 to 270             | °C        |                 |
| Front Temperature                                 | 230 to 270             | °C        |                 |
| Mold Temperature                                  | 40.0 to 80.0           | °C        |                 |

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