

# Torayca® ASHT-18A

Acrylonitrile Butadiene Styrene

Toray Resin Company

## Message:

Torayca® ASHT-18A is an Acrylonitrile Butadiene Styrene (ABS) product filled with 18% carbon fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

| General Information                               |                                    |                   |             |
|---------------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Carbon Fiber, 18% Filler by Weight |                   |             |
| Part Marking Code                                 | >ABS-CF18<                         |                   |             |
| Physical                                          | Nominal Value                      | Unit              | Test Method |
| Density (23°C)                                    | 1.14                               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (240°C/10.0 kg)         | 4.4                                | g/10 min          | ISO 1133    |
| Mechanical                                        | Nominal Value                      | Unit              | Test Method |
| Tensile Stress (23°C)                             | 126                                | MPa               | ISO 527-2   |
| Tensile Strain (Break, 23°C)                      | 2.0                                | %                 | ISO 527-2   |
| Flexural Modulus (23°C)                           | 14500                              | MPa               | ISO 178     |
| Flexural Stress (23°C)                            | 187                                | MPa               | ISO 178     |
| Impact                                            | Nominal Value                      | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C)             | 5.0                                | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                           | Nominal Value                      | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 109                                | °C                | ISO 75-2/A  |
| Electrical                                        | Nominal Value                      | Unit              | Test Method |
| Surface Resistivity                               | 1.0E+2 to 1.0E+3                   | ohms              | IEC 60093   |
| Flammability                                      | Nominal Value                      | Unit              | Test Method |
| Flame Rating                                      | HB                                 |                   | UL 94       |

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