

# ALTECH® ABS A 1000/160 BK2448-12LS

Acrylonitrile Butadiene Styrene

ALBIS PLASTIC GmbH

## Message:

ALTECH® ABS A 1000/160 BK2448-12LS is an acrylonitrile butadiene styrene (ABS) product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALTECH® The application fields of ABS A 1000/160 BK2448-12LS include electrical/electronic applications and electrical appliances.

Features include:

Comply with REACH standard

ROHS certification

high liquidity

Stable

| General Information                         |                                    |           |             |
|---------------------------------------------|------------------------------------|-----------|-------------|
| Additive                                    | Processing stabilizer              |           |             |
| Features                                    | Laser marking                      |           |             |
|                                             | High liquidity                     |           |             |
| Uses                                        | Electrical/Electronic Applications |           |             |
|                                             | Electrical appliances              |           |             |
| Agency Ratings                              | EC 1907/2006 (REACH)               |           |             |
| RoHS Compliance                             | RoHS compliance                    |           |             |
| Processing Method                           | Injection molding                  |           |             |
| Physical                                    | Nominal Value                      | Unit      | Test Method |
| Density                                     | 1.10                               | g/cm³     | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 17.0                               | cm³/10min | ISO 1133    |
| Hardness                                    | Nominal Value                      | Unit      | Test Method |
| Ball Indentation Hardness (H 358/30)        | 110                                | MPa       | ISO 2039-1  |
| Mechanical                                  | Nominal Value                      | Unit      | Test Method |
| Tensile Modulus                             | 2500                               | MPa       | ISO 527-2   |
| Tensile Stress                              | 45.0                               | MPa       | ISO 527-2   |
| Tensile Strain (Break)                      | 15                                 | %         | ISO 527-2   |
| Flexural Modulus                            | 2300                               | MPa       | ISO 178     |
| Flexural Stress                             | 72.0                               | MPa       | ISO 178     |
| Impact                                      | Nominal Value                      | Unit      | Test Method |
| Charpy Notched Impact Strength              |                                    |           | ISO 179/1eA |
| --                                          | 17                                 | kJ/m²     | ISO 179/1eA |
| -20°C                                       | 8.0                                | kJ/m²     | ISO 179/1eA |
| Charpy Unnotched Impact Strength            |                                    |           | ISO 179/1eU |
| --                                          | 90                                 | kJ/m²     | ISO 179/1eU |
| -20°C                                       | 75                                 | kJ/m²     | ISO 179/1eU |

| Thermal                                           | Nominal Value | Unit    | Test Method    |
|---------------------------------------------------|---------------|---------|----------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 83.0          | °C      | ISO 75-2/A     |
| Vicat Softening Temperature                       | 100           | °C      | ISO 306/B50    |
| Electrical                                        | Nominal Value | Unit    | Test Method    |
| Surface Resistivity                               | > 1.0E+12     | ohms    | IEC 60093      |
| Volume Resistivity                                | 2.0E+16       | ohms·cm | IEC 60093      |
| Flammability                                      | Nominal Value | Unit    | Test Method    |
| Glow Wire Flammability Index (2.0 mm)             | 650           | °C      | IEC 60695-2-12 |
| Injection                                         | Nominal Value | Unit    |                |
| Drying Temperature                                |               |         |                |
| Dehumidification desiccant                        | 80            | °C      |                |
| Hot air dryer                                     | 80            | °C      |                |
| Drying Time                                       |               |         |                |
| Dehumidification desiccant                        | 3.0 - 6.0     | hr      |                |
| Hot air dryer                                     | 2.0 - 4.0     | hr      |                |
| Processing (Melt) Temp                            | 220 - 260     | °C      |                |
| Mold Temperature                                  | 50 - 80       | °C      |                |

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