

# ALCOM® PC + AWL 750/15.1 WT1378-04LB

Polycarbonate + ABS

ALBIS PLASTIC GmbH

## Message:

ALCOM® PC + AWL 750/15.1 WT1378-04LB is a Polycarbonate + ABS (PC+ABS) product filled with 15% filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC + AWL 750/15.1 WT1378-04LB include automotive, electrical/electronic applications, lighting applications and reflectors.

Characteristics include:

Flame Rated

REACH Compliant

RoHS Compliant

| General Information                        |                                    |           |             |
|--------------------------------------------|------------------------------------|-----------|-------------|
| Filler / Reinforcement                     | Filler,15% Filler by Weight        |           |             |
| Features                                   | High Reflectivity                  |           |             |
| Uses                                       | Automotive Applications            |           |             |
|                                            | Electrical/Electronic Applications |           |             |
|                                            | Lighting Applications              |           |             |
|                                            | Reflectors                         |           |             |
| Agency Ratings                             | EC 1907/2006 (REACH)               |           |             |
| RoHS Compliance                            | RoHS Compliant                     |           |             |
| Appearance                                 | Opaque                             |           |             |
| Physical                                   | Nominal Value                      | Unit      | Test Method |
| Density                                    | 1.25                               | g/cm³     | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (260°C/5.0 kg) | 20.0                               | cm³/10min | ISO 1133    |
| Hardness                                   | Nominal Value                      | Unit      | Test Method |
| Ball Indentation Hardness (H 358/30)       | 125                                | MPa       | ISO 2039-1  |
| Mechanical                                 | Nominal Value                      | Unit      | Test Method |
| Tensile Modulus                            | 2900                               | MPa       | ISO 527-2   |
| Tensile Stress                             |                                    |           | ISO 527-2   |
| Yield                                      | 50.0                               | MPa       |             |
| Break                                      | 45.0                               | MPa       |             |
| Tensile Strain                             |                                    |           | ISO 527-2   |
| Yield                                      | 3.3                                | %         |             |
| Break                                      | 12                                 | %         |             |
| Flexural Modulus                           | 3000                               | MPa       | ISO 178     |
| Flexural Stress                            | 85.0                               | MPa       | ISO 178     |
| Impact                                     | Nominal Value                      | Unit      | Test Method |
| Charpy Notched Impact Strength             | 8.0                                | kJ/m²     | ISO 179/1eA |
| Charpy Unnotched Impact Strength           | 80                                 | kJ/m²     | ISO 179/1eU |

| Thermal                                           | Nominal Value | Unit | Test Method |
|---------------------------------------------------|---------------|------|-------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 105           | °C   | ISO 75-2/A  |
| Vicat Softening Temperature                       | 120           | °C   | ISO 306/B50 |
| Flammability                                      | Nominal Value |      | Test Method |
| Flame Rating                                      |               |      | UL 94       |
| 0.750 mm                                          | HB            |      |             |
| 1.50 mm                                           | HB            |      |             |
| 3.00 mm                                           | HB            |      |             |
| Additional Information                            | Nominal Value | Unit | Test Method |
| Tristimulus Value                                 |               |      |             |
| Y10 of Reflection                                 | 93            | %    | DIN 5033    |
| Y10 of Transmittance : 500.0 μm                   | 1.0           | %    | ISO 13468   |
| Injection                                         | Nominal Value | Unit |             |
| Drying Temperature                                |               |      |             |
| Circulation Dryer                                 | 100 to 110    | °C   |             |
| Desiccant Dryer                                   | 100 to 110    | °C   |             |
| Drying Time                                       |               |      |             |
| Circulation Dryer                                 | 4.0 to 8.0    | hr   |             |
| Desiccant Dryer                                   | 2.0 to 4.0    | hr   |             |
| Processing (Melt) Temp                            | 220 to 280    | °C   |             |
| Mold Temperature                                  | 70.0 to 100   | °C   |             |

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