

# ALCOM® AWL 109/15 UV WT1217-11LB

Polycarbonate + ABS

ALBIS PLASTIC GmbH

## Message:

ALCOM® AWL 109/15 UV WT1217-11LB is a Polycarbonate + ABS (PC+ABS) product filled with 15% filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® AWL 109/15 UV WT1217-11LB include automotive, lighting applications and reflectors.

Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Heat Stabilizer
- UV Stabilized

| General Information                         |                              |                        |             |
|---------------------------------------------|------------------------------|------------------------|-------------|
| Filler / Reinforcement                      | Filler, 15% Filler by Weight |                        |             |
| Additive                                    | Heat Stabilizer              |                        |             |
|                                             | UV Stabilizer                |                        |             |
| Features                                    | Heat Stabilized              |                        |             |
|                                             | High Reflectivity            |                        |             |
| Uses                                        | Automotive Applications      |                        |             |
|                                             | Lighting Applications        |                        |             |
|                                             | Reflectors                   |                        |             |
| Agency Ratings                              | EC 1907/2006 (REACH)         |                        |             |
| RoHS Compliance                             | RoHS Compliant               |                        |             |
| Appearance                                  | Opaque                       |                        |             |
| Physical                                    | Nominal Value                | Unit                   | Test Method |
| Density                                     | 1.21                         | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 17.0                         | cm <sup>3</sup> /10min | ISO 1133    |
| Hardness                                    | Nominal Value                | Unit                   | Test Method |
| Ball Indentation Hardness (H 358/30)        | 115                          | MPa                    | ISO 2039-1  |
| Mechanical                                  | Nominal Value                | Unit                   | Test Method |
| Tensile Modulus                             | 2700                         | MPa                    | ISO 527-2   |
| Tensile Stress                              |                              |                        | ISO 527-2   |
| Yield                                       | 50.0                         | MPa                    |             |
| Break                                       | 39.0                         | MPa                    |             |
| Tensile Strain                              |                              |                        | ISO 527-2   |
| Yield                                       | 3.0                          | %                      |             |
| Break                                       | 13                           | %                      |             |
| Flexural Modulus                            | 2700                         | MPa                    | ISO 178     |

|                                                   |               |                   |             |
|---------------------------------------------------|---------------|-------------------|-------------|
| Flexural Stress                                   | 75.0          | MPa               | ISO 178     |
| Impact                                            | Nominal Value | Unit              | Test Method |
| Charpy Notched Impact Strength                    | 13            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength                  | 90            | kJ/m <sup>2</sup> | ISO 179/1eU |
| Thermal                                           | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 100           | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       | 109           | °C                | ISO 306/B50 |
| Flammability                                      | Nominal Value |                   | Test Method |
| Flame Rating                                      |               |                   | UL 94       |
| 1.50 mm                                           | HB            |                   |             |
| 3.00 mm                                           | HB            |                   |             |
| Fire Performance (2.00 mm)                        | passed        |                   | FMVSS       |
| Tristimulus Value                                 |               |                   |             |
| Y10 of Reflection                                 | 92            | %                 | DIN 5033    |
| Y10 of Transmittance : 500.0 μm                   | 0.40          | %                 | ISO 13468   |
| Injection                                         | Nominal Value | Unit              |             |
| Drying Temperature                                |               |                   |             |
| Circulation Dryer                                 | 80.0          | °C                |             |
| Desiccant Dryer                                   | 80.0          | °C                |             |
| Drying Time                                       |               |                   |             |
| Circulation Dryer                                 | 3.0 to 6.0    | hr                |             |
| Desiccant Dryer                                   | 2.0 to 4.0    | hr                |             |
| Processing (Melt) Temp                            | 230 to 260    | °C                |             |
| Mold Temperature                                  | 50.0 to 80.0  | °C                |             |

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