

# ALCOM® AWL 109/10 WT1218-11LB

Polycarbonate + ABS

ALBIS PLASTIC GmbH

## Message:

ALCOM® AWL 109/10 WT1218-11LB is a Polycarbonate + ABS (PC+ABS) product filled with 10% filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® AWL 109/10 WT1218-11LB include automotive, lighting applications and reflectors.

Characteristics include:

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

| General Information                         |                              |                        |             |
|---------------------------------------------|------------------------------|------------------------|-------------|
| Filler / Reinforcement                      | Filler, 10% Filler by Weight |                        |             |
| Additive                                    | Heat 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                                     | 1.18                         | 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    |
| Molding Shrinkage                           |                              |                        | ISO 294-4   |
| Across Flow : 24 hr                         | 0.10                         | %                      |             |
| Flow : 24 hr                                | 0.30                         | %                      |             |
| 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                             | 2500                         | 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                                  | 2500                 | MPa               | ISO 178            |
| Flexural Stress                                   | 78.0                 | MPa               | ISO 178            |
| <b>Impact</b>                                     | <b>Nominal Value</b> | <b>Unit</b>       | <b>Test Method</b> |
| Charpy Notched Impact Strength                    | 20                   | kJ/m <sup>2</sup> | ISO 179/1eA        |
| Charpy Unnotched Impact Strength                  | No Break             |                   | ISO 179/1eU        |
| <b>Thermal</b>                                    | <b>Nominal Value</b> | <b>Unit</b>       | <b>Test Method</b> |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 100                  | °C                | ISO 75-2/A         |
| Vicat Softening Temperature                       | 109                  | °C                | ISO 306/B50        |
| <b>Flammability</b>                               | <b>Nominal Value</b> |                   | <b>Test Method</b> |
| Flame Rating                                      |                      |                   | UL 94              |
| 1.50 mm                                           | HB                   |                   |                    |
| 3.00 mm                                           | HB                   |                   |                    |
| Fire Performance (2.00 mm)                        | passed               |                   | FMVSS              |
| <b>Tristimulus Value</b>                          |                      |                   |                    |
| Y10 of Reflection                                 | 85                   | %                 | DIN 5033           |
| Y10 of Transmittance : 500.0 μm                   | 0.20                 | %                 | ISO 13468          |
| <b>Injection</b>                                  | <b>Nominal Value</b> | <b>Unit</b>       |                    |
| <b>Drying Temperature</b>                         |                      |                   |                    |
| Circulation Dryer                                 | 80.0                 | °C                |                    |
| Desiccant Dryer                                   | 80.0                 | °C                |                    |
| <b>Drying Time</b>                                |                      |                   |                    |
| 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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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

