

# ALCOM® PC 740/4 WT1172-09LD

Polycarbonate  
ALBIS PLASTIC GmbH

Message:

ALCOM® PC 740/4 WT1172-09LD is a Polycarbonate (PC) product filled with filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC 740/4 WT1172-09LD include automotive and lighting applications.

Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- High Flow

| General Information                            |                         |                        |             |
|------------------------------------------------|-------------------------|------------------------|-------------|
| Filler / Reinforcement                         | Filler                  |                        |             |
| Features                                       | High Flow               |                        |             |
| Uses                                           | Automotive Applications |                        |             |
|                                                | Lighting Applications   |                        |             |
| Agency Ratings                                 | EC 1907/2006 (REACH)    |                        |             |
| RoHS Compliance                                | RoHS Compliant          |                        |             |
| Physical                                       | Nominal Value           | Unit                   | Test Method |
| Density                                        | 1.19                    | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)     | 17.0                    | cm <sup>3</sup> /10min | ISO 1133    |
| Mechanical                                     | Nominal Value           | Unit                   | Test Method |
| Tensile Modulus                                | 2400                    | MPa                    | ISO 527-2   |
| Tensile Stress                                 |                         |                        | ISO 527-2   |
| Yield                                          | 66.0                    | MPa                    |             |
| --                                             | 66.0                    | MPa                    |             |
| Tensile Strain                                 |                         |                        | ISO 527-2   |
| Yield                                          | 6.0                     | %                      |             |
| Break                                          | 70                      | %                      |             |
| Flexural Modulus                               | 2450                    | MPa                    | ISO 178     |
| Flexural Stress                                |                         |                        | ISO 178     |
| --                                             | 100                     | MPa                    |             |
| 3.5% Strain                                    | 76.0                    | MPa                    |             |
| Flexural Strain at Flexural Strength           | 7.0                     | %                      | ISO 178     |
| Fire Performance (1.00 mm)                     | passed                  |                        | FMVSS       |
| Half Power Angle - T(Y) <sup>1</sup> (1.00 mm) | 57.0                    | °                      |             |
| Impact                                         | Nominal Value           | Unit                   | Test Method |
| Charpy Notched Impact Strength                 |                         |                        | ISO 179/1eA |
| --                                             | 12                      | kJ/m <sup>2</sup>      |             |

|                                                   |               |                   |             |
|---------------------------------------------------|---------------|-------------------|-------------|
| -40°C                                             | 12            | kJ/m <sup>2</sup> |             |
| -20°C                                             | 12            | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength                  |               | ISO 179/1eU       |             |
| --                                                | No Break      |                   |             |
| -40°C                                             | No Break      |                   |             |
| -20°C                                             | No Break      |                   |             |
| Thermal                                           | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 124           | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                       | 142           | °C                | ISO 306/B50 |
| Flammability                                      | Nominal Value | Unit              | Test Method |
| Flame Rating                                      |               | UL 94             |             |
| 1.50 mm                                           | HB            |                   |             |
| 0.750 mm                                          | V-2           |                   |             |
| Glow Wire Flammability Index                      |               | IEC 60695-2-12    |             |
| 1.00 mm                                           | 850           | °C                |             |
| 2.00 mm                                           | 850           | °C                |             |
|                                                   | 960           |                   |             |
|                                                   |               |                   |             |
|                                                   |               |                   |             |
| 3.00 mm                                           | 850           | °C                |             |
|                                                   | 960           |                   |             |
|                                                   |               |                   |             |
|                                                   |               |                   |             |
| 4.00 mm                                           | 850           | °C                |             |
| Optical                                           | Nominal Value | Unit              | Test Method |
| Transmittance <sup>2</sup> (Total, 1000 µm)       | 18.0          | %                 | ISO 13468   |
| Haze <sup>3</sup> (1000 µm)                       | 95            | %                 | ISO 13468   |
| Injection                                         | Nominal Value | Unit              |             |
| Drying Temperature                                |               |                   |             |
| Circulation Dryer                                 | 100 to 120    | °C                |             |
| Desiccant Dryer                                   | 100 to 120    | °C                |             |
| Drying Time                                       |               |                   |             |
| Circulation Dryer                                 | 4.0 to 12     | hr                |             |
| Desiccant Dryer                                   | 2.0 to 3.0    | hr                |             |
| Suggested Max Moisture                            | 0.020         | %                 |             |
| Processing (Melt) Temp                            | 270 to 310    | °C                |             |
| Mold Temperature                                  | 80.0 to 110   | °C                |             |
| NOTE                                              |               |                   |             |
| 1.                                                | A, 2°         |                   |             |
| 2.                                                | A, 2°         |                   |             |
| 3.                                                | III. A, 2°    |                   |             |

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