

# ALCOM® PC 730/3.1 UV WT1283-09LDM

Polycarbonate  
ALBIS PLASTIC GmbH

Message:

ALCOM® PC 730/3.1 UV WT1283-09LDM is a Polycarbonate (PC) product. It can be processed by extrusion and is available in Asia Pacific, Europe, or North America. Typical application: Lighting Applications.  
Characteristics include:  
Flame Rated  
REACH Compliant  
RoHS Compliant  
Antioxidant  
High Viscosity

| General Information                        |                       |                        |             |
|--------------------------------------------|-----------------------|------------------------|-------------|
| Additive                                   | Antioxidant           |                        |             |
|                                            | Processing Stabilizer |                        |             |
|                                            | UV Stabilizer         |                        |             |
| Features                                   | Antioxidant           |                        |             |
|                                            | High Viscosity        |                        |             |
|                                            | Low Gloss             |                        |             |
| Uses                                       | Lighting Applications |                        |             |
| Agency Ratings                             | EC 1907/2006 (REACH)  |                        |             |
| RoHS Compliance                            | RoHS Compliant        |                        |             |
| Processing Method                          | Extrusion             |                        |             |
| 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) | 8.00                  | cm <sup>3</sup> /10min | ISO 1133    |
| Mechanical                                 | Nominal Value         | Unit                   | Test Method |
| Tensile Modulus                            | 2400                  | MPa                    | ISO 527-2   |
| Tensile Stress                             | 68.0                  | MPa                    | ISO 527-2   |
| Tensile Strain (Break)                     | 25                    | %                      | ISO 527-2   |
| Flexural Modulus                           | 2580                  | MPa                    | ISO 178     |
| Flexural Stress                            | 104                   | MPa                    | ISO 178     |
| Impact                                     | Nominal Value         | Unit                   | Test Method |
| Charpy Notched Impact Strength             |                       |                        | ISO 179/1eA |
| --                                         | 4.0                   | kJ/m <sup>2</sup>      |             |
| -40°C                                      | 4.0                   | kJ/m <sup>2</sup>      |             |
| -20°C                                      | 4.0                   | kJ/m <sup>2</sup>      |             |
| Charpy Unnotched Impact Strength           |                       |                        | ISO 179/1eU |
| --                                         | No Break              |                        |             |

|                                                   |               |                   |                |
|---------------------------------------------------|---------------|-------------------|----------------|
| -40°C                                             | 85            | kJ/m <sup>2</sup> |                |
| -20°C                                             | 120           | kJ/m <sup>2</sup> |                |
| Thermal                                           | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 122           | °C                | ISO 75-2/A     |
| Vicat Softening Temperature                       | 135           | °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>1</sup>                        |               |                   | ISO 13468      |
| Total, 3000 µm                                    | 58.0          | %                 |                |
| Total, 4000 µm                                    | 51.0          | %                 |                |
| Haze                                              |               |                   | ISO 13468      |
| 1000 µm <sup>2</sup>                              | 93            | %                 |                |
| 3000 µm <sup>3</sup>                              | 95            | %                 |                |
| 4000 µm <sup>4</sup>                              | 95            | %                 |                |
| Additional Information                            | Nominal Value | Unit              |                |
| Half Power Angle - T(Y) <sup>5</sup>              |               |                   |                |
| 3.00 mm                                           | 27.0          | °                 |                |
| 4.00 mm                                           | 38.0          | °                 |                |
| Injection                                         | Nominal Value | Unit              |                |
| Drying Temperature                                | 100 to 120    | °C                |                |
| Drying Time                                       | 4.0 to 12     | hr                |                |
| Suggested Max Moisture                            | 0.010         | %                 |                |
| Extrusion                                         | Nominal Value | Unit              |                |
| Melt Temperature                                  | 240 to 280    | °C                |                |
| NOTE                                              |               |                   |                |
| 1.                                                | A, 2°         |                   |                |
| 2.                                                | III. A, 2°    |                   |                |

|    |            |
|----|------------|
| 3. | A, 2°      |
| 4. | III. A, 2° |
| 5. | A, 2°      |

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