

# ALCOM® PC 740/4.2 UV WT1217-10LD3

Polycarbonate  
ALBIS PLASTIC GmbH

Message:

ALCOM® PC 740/4.2 UV WT1217-10LD3 is a Polycarbonate (PC) product filled with filler. It is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC 740/4.2 UV WT1217-10LD3 include automotive and lighting applications. Characteristics include:  
Flame Rated  
REACH Compliant  
RoHS Compliant

| General Information                               |                         |           |                |
|---------------------------------------------------|-------------------------|-----------|----------------|
| Filler / Reinforcement                            | Filler                  |           |                |
| 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/cm³     | ISO 1183       |
| Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)        | 17.0                    | cm³/10min | ISO 1133       |
| Mechanical                                        | Nominal Value           | Unit      | Test Method    |
| Tensile Modulus                                   | 22000                   | MPa       | ISO 527-2      |
| Tensile Stress                                    | 64.0                    | MPa       | ISO 527-2      |
| Impact                                            | Nominal Value           | Unit      | Test Method    |
| Charpy Notched Impact Strength                    | 12                      | kJ/m²     | ISO 179/1eA    |
| Thermal                                           | Nominal Value           | Unit      | Test Method    |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 128                     | °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        |                |

| 4.00 mm                                        | 850           | °C   |             |
|------------------------------------------------|---------------|------|-------------|
| Optical                                        | Nominal Value | Unit | Test Method |
| Transmittance <sup>1</sup> (Total, 1000 µm)    | 16.0          | %    | ISO 13468   |
| Haze <sup>2</sup> (1000 µm)                    | 95            | %    | ISO 13468   |
| Additional Information                         | Nominal Value | Unit |             |
| Half Power Angle - T(Y) <sup>3</sup> (1.00 mm) | 57.0          | °    |             |
| 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.                                             | III. A, 2°    |      |             |
| 3.                                             | A, 2°         |      |             |

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