

# ALCOM® PMMA 790/2.1 UV GY1074-11LD3

Polymethyl Methacrylate Acrylic  
ALBIS PLASTIC GmbH

Message:

ALCOM®PMMA 790/2.1 UV GY1074-11LD3 is a polymethyl methacrylate-acrylic acid product, which contains filler. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALCOM®The application fields of PMMA 790/2.1 UV GY1074-11LD3 include automobile industry and lighting equipment.  
Features include:  
flame retardant/rated flame  
Comply with REACH standard  
ROHS certification  
UV stability

| General Information                               |                                 |           |             |
|---------------------------------------------------|---------------------------------|-----------|-------------|
| Filler / Reinforcement                            | Filler                          |           |             |
| Additive                                          | UV stabilizer                   |           |             |
| Uses                                              | Lighting Applications           |           |             |
|                                                   | Application in Automobile Field |           |             |
| Agency Ratings                                    | EC 1907/2006 (REACH)            |           |             |
| RoHS Compliance                                   | RoHS compliance                 |           |             |
| Appearance                                        | Translucent                     |           |             |
| Processing Method                                 | Injection molding               |           |             |
| Physical                                          | Nominal Value                   | Unit      | Test Method |
| Density                                           | 1.18                            | g/cm³     | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)        | 5.00                            | cm³/10min | ISO 1133    |
| Mechanical                                        | Nominal Value                   | Unit      | Test Method |
| Tensile Modulus                                   | 3300                            | MPa       | ISO 527-2   |
| Tensile Stress                                    | 69.0                            | MPa       | ISO 527-2   |
| Tensile Strain (Break)                            | 4.0                             | %         | ISO 527-2   |
| Flexural Modulus                                  | 3300                            | MPa       | ISO 178     |
| Flexural Stress                                   |                                 |           | ISO 178     |
| 3.5% strain                                       | 96.0                            | MPa       | ISO 178     |
| --                                                | 100                             | MPa       | ISO 178     |
| Impact                                            | Nominal Value                   | Unit      | Test Method |
| Charpy Unnotched Impact Strength                  |                                 |           | ISO 179/1eU |
| --                                                | 21                              | kJ/m²     | ISO 179/1eU |
| -40°C                                             | 20                              | kJ/m²     | ISO 179/1eU |
| -20°C                                             | 20                              | kJ/m²     | ISO 179/1eU |
| Thermal                                           | Nominal Value                   | Unit      | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 89.0                            | °C        | ISO 75-2/A  |

| Vicat Softening Temperature  | 107           | °C   | ISO 306/B50    |
|------------------------------|---------------|------|----------------|
| Flammability                 | Nominal Value | Unit | Test Method    |
| Flame Rating                 |               |      | UL 94          |
| 1.5 mm                       | HB            |      | UL 94          |
| 3.0 mm                       | HB            |      | UL 94          |
| Glow Wire Flammability Index |               |      | IEC 60695-2-12 |
| 1.0 mm                       | 650           | °C   | IEC 60695-2-12 |
| 2.0 mm                       | 650           | °C   | IEC 60695-2-12 |
| 3.0 mm                       | 650           | °C   | IEC 60695-2-12 |
| 4.0 mm                       | 650           | °C   | IEC 60695-2-12 |
| Optical                      | Nominal Value | Unit | Test Method    |
| Transmittance <sup>1</sup>   |               |      | ASTM D1003     |
| Total, 1000 μm               | 41.4          | %    | ASTM D1003     |
| Total, 4000 μm               | 4.4           | %    | ASTM D1003     |
| Injection                    | Nominal Value | Unit |                |
| Drying Temperature           |               |      |                |
| Dehumidification desiccant   | 65 - 90       | °C   |                |
| Hot air dryer                | 65 - 90       | °C   |                |
| Drying Time                  |               |      |                |
| Dehumidification desiccant   | 4.0 - 6.0     | hr   |                |
| Hot air dryer                | 3.0 - 4.0     | hr   |                |
| Processing (Melt) Temp       | 210 - 280     | °C   |                |
| Mold Temperature             | 50 - 80       | °C   |                |
| NOTE                         |               |      |                |
| 1.                           | T(Y), A, 2°   |      |                |

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