

# DIALAC® KD101S

Acrylonitrile Ethylene Styrene

UMG ABS, Ltd.

## Message:

DIALAC® KD101S is an Acrylonitrile Ethylene Styrene (AES) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of DIALAC® KD101S are:

Flame Rated

RoHS Compliant

| General Information                               |                   |                        |             |
|---------------------------------------------------|-------------------|------------------------|-------------|
| RoHS Compliance                                   | RoHS Compliant    |                        |             |
| UL File Number                                    | E47016            |                        |             |
| Forms                                             | Pellets           |                        |             |
| Processing Method                                 | Injection Molding |                        |             |
| Physical                                          | Nominal Value     | Unit                   | Test Method |
| Density (23°C)                                    | 1.07              | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)       | 130               | cm <sup>3</sup> /10min | ISO 1133    |
| Molding Shrinkage - Flow (23°C)                   | 0.60 to 0.80      | %                      | ISO 294-4   |
| Hardness                                          | Nominal Value     | Unit                   | Test Method |
| Rockwell Hardness (R-Scale, 23°C)                 | 105               |                        | ISO 2039-2  |
| Mechanical                                        | Nominal Value     | Unit                   | Test Method |
| Tensile Modulus (23°C)                            | 2300              | MPa                    | ISO 527-2   |
| Tensile Stress (23°C)                             | 45.0              | MPa                    | ISO 527-2   |
| Flexural Modulus <sup>1</sup> (23°C)              | 2450              | MPa                    | ISO 178     |
| Flexural Stress <sup>2</sup> (23°C)               | 63.0              | MPa                    | ISO 178     |
| Impact                                            | Nominal Value     | Unit                   | Test Method |
| Charpy Notched Impact Strength                    |                   |                        | ISO 179     |
| -30°C                                             | 2.0               | kJ/m <sup>2</sup>      |             |
| 23°C                                              | 7.0               | kJ/m <sup>2</sup>      |             |
| Thermal                                           | Nominal Value     | Unit                   | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 71.0              | °C                     | ISO 75-2/Af |
| CLTE - Flow                                       | 9.0E-5            | cm/cm/°C               | ISO 11359-2 |
| Flammability                                      | Nominal Value     |                        | Test Method |
| Flame Rating                                      |                   |                        | UL 94       |
| 0.750 mm                                          | V-2               |                        |             |
| 3.00 mm                                           | V-2               |                        |             |
| Injection                                         | Nominal Value     | Unit                   |             |
| Drying Temperature                                | 80.0 to 85.0      | °C                     |             |
| Drying Time                                       | 6.0               | hr                     |             |
| Rear Temperature                                  | 150 to 190        | °C                     |             |

|                        |               |     |
|------------------------|---------------|-----|
| Middle Temperature     | 170 to 210    | °C  |
| Front Temperature      | 180 to 220    | °C  |
| Nozzle Temperature     | 170 to 210    | °C  |
| Processing (Melt) Temp | 200 to 230    | °C  |
| Mold Temperature       | 50.0 to 60.0  | °C  |
| Injection Pressure     | 70.0 to 130   | MPa |
| Injection Rate         | Slow-Moderate |     |
| Back Pressure          | 5.00 to 10.0  | MPa |
| Screw Speed            | 30 to 70      | rpm |
| NOTE                   |               |     |
| 1.                     | 2.0 mm/min    |     |
| 2.                     | 2.0 mm/min    |     |

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#### Recommended distributors for this material

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