

# C-Clear™ K7060

Acrylonitrile Butadiene Styrene  
Shanghai KumhoSunny Plastics Co., Ltd.

Message:

Kumhosunny C-Clear™ K7060 is heat resistance ABS with low VOC ,high rigidity , toughness and good UV-stability .

| General Information                          |                      |          |              |
|----------------------------------------------|----------------------|----------|--------------|
| Features                                     | Good Toughness       |          |              |
|                                              | Good UV Resistance   |          |              |
|                                              | High Heat Resistance |          |              |
|                                              | High Rigidity        |          |              |
|                                              | Low VOC              |          |              |
| UL File Number                               | E254819              |          |              |
|                                              | E65424               |          |              |
| Forms                                        | Pellets              |          |              |
| Processing Method                            | Injection Molding    |          |              |
| Physical                                     | Nominal Value        | Unit     | Test Method  |
| Density (23°C)                               | 1.06                 | g/cm³    | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)    | 6.0                  | g/10 min | ISO 1133     |
| Molding Shrinkage (23°C)                     | 0.40 to 0.70         | %        | ISO 294-4    |
| VOC Content - Condition: 120°C*5h            | < 18.0               | µgC/g    | VDA 277      |
| Fogging - Condition: 100°C*18h               | < 2.0                | mg       | DIN 75201    |
| Ethylbenzene Emissions - Condition: 120°C*5h | < 8.00               | µg/g     | VDA 277      |
| Odor                                         |                      |          | VDA 270      |
| Condition: 23°C*24h                          | Grade 2              |          |              |
| Condition: 40°C*24h                          | Grade 3              |          |              |
| Condition: 80°C*2h                           | Grade 3              |          |              |
| Hardness                                     | Nominal Value        | Unit     | Test Method  |
| Rockwell Hardness (R-Scale, 23°C)            | 110                  |          | ISO 2039-2   |
| Mechanical                                   | Nominal Value        | Unit     | Test Method  |
| Tensile Stress                               | 45.0                 | MPa      | ISO 527-2/50 |
| Tensile Strain (Break)                       | 12                   | %        | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                | 2300                 | MPa      | ISO 178      |
| Flexural Stress <sup>2</sup>                 | 62.0                 | MPa      | ISO 178      |
| Poisson's Ratio <sup>3</sup>                 | 0.40                 |          | ISO 527      |
| Impact                                       | Nominal Value        | Unit     | Test Method  |
| Notched Izod Impact Strength <sup>4</sup>    |                      |          | ISO 180      |

| -30°C                                              | 7.0              | kJ/m <sup>2</sup> |             |
|----------------------------------------------------|------------------|-------------------|-------------|
| 23°C                                               | 14               | kJ/m <sup>2</sup> |             |
| Unnotched Izod Impact Strength <sup>5</sup> (23°C) | No Break         |                   | ISO 180     |
| Thermal                                            | Nominal Value    | Unit              | Test Method |
| Heat Deflection Temperature <sup>6</sup>           |                  |                   |             |
| 0.45 MPa, Unannealed                               | 103              | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                                | 94.0             | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                        | 113              | °C                | ISO 306/B50 |
| Electrical                                         | Nominal Value    | Unit              | Test Method |
| Surface Resistivity                                | > 1.0E+15        | ohms              | IEC 60093   |
| Volume Resistivity                                 | > 1.0E+15        | ohms·cm           | IEC 60093   |
| Flammability                                       | Nominal Value    | Unit              | Test Method |
| Flame Rating (1.60 mm)                             | HB               |                   | UL 94       |
| Injection                                          | Nominal Value    | Unit              |             |
| Drying Temperature                                 | 85.0 to 100      | °C                |             |
| Drying Time                                        | 3.0 to 4.0       | hr                |             |
| Suggested Max Moisture                             | 0.050            | %                 |             |
| Rear Temperature                                   | 220 to 240       | °C                |             |
| Middle Temperature                                 | 230 to 250       | °C                |             |
| Front Temperature                                  | 240 to 260       | °C                |             |
| Nozzle Temperature                                 | 250 to 270       | °C                |             |
| Processing (Melt) Temp                             | 240 to 260       | °C                |             |
| Mold Temperature                                   | 50.0 to 80.0     | °C                |             |
| Back Pressure                                      | 1.00 to 5.00     | MPa               |             |
| Screw Speed                                        | 30 to 70         | rpm               |             |
| NOTE                                               |                  |                   |             |
| 1.                                                 | 2.0 mm/min       |                   |             |
| 2.                                                 | 2.0 mm/min       |                   |             |
| 3.                                                 | 1 mm/min         |                   |             |
| 4.                                                 | Condition: 5.5 J |                   |             |
| 5.                                                 | Condition: 5.5 J |                   |             |
| 6.                                                 | 120°C/h          |                   |             |

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