

## Technical Data Sheet

# K7050

## ABS

### PRODUCT DESCRIPTION:

ABSK7050 is low VOCs ABS resin with high heat resistance, toughness and good UV stability.

### FEATURES:

- Ultra high heat
- High impact

### APPLICATION:

- Console
- Tail lamp housing

| Properties                  | Standard   | Condition         | Unit              | Typical Value |
|-----------------------------|------------|-------------------|-------------------|---------------|
| <b>Physical</b>             |            |                   |                   |               |
| Density                     | ISO 1183   | 23°C              | g/cm <sup>3</sup> | 1.06          |
| Mold Shrinkage              | ISO 294    | 23°C, 48hr        | %                 | 0.4-0.7       |
| Melt Flow Rate              | ISO 1133   | 220°C, 10kg       | g/10 min          | 7             |
| <b>Mechanical</b>           |            |                   |                   |               |
| Tensile Strength at Yield   | ISO 527    | 50mm/min          | MPa               | 45            |
| Elongation at Break         | ISO 527    | 50mm/min          | %                 | 30            |
| Flexural Strength           | ISO 178    | 2mm/min           | MPa               | 70            |
| Flexural Modulus            | ISO 178    | 2mm/min           | MPa               | 2200          |
| Notched Izod Impact         | ISO 180    | 5.5J, 23°C        | kJ/m <sup>2</sup> | 14            |
| Unnotched Izod Impact       | ISO 180    | 5.5J, 23°C        | kJ/m <sup>2</sup> | 80            |
| Rockwell Hardness           | ISO 2039-2 | 23°C              | R-scale           | 110           |
| <b>Thermal</b>              |            |                   |                   |               |
| Heat Deflection Temperature | ISO 75     | 120°C/hr, 0.45MPa | °C                | 102           |
| Heat Deflection Temperature | ISO 75     | 120°C/hr, 1.80MPa | °C                | 90            |
| Vicat Softening Temperature | ISO 306    | 50°C/hr, 5kg      | °C                | 107           |
| <b>Other Properties</b>     |            |                   |                   |               |
| Flammability                | ISO 3795   | 360*100*3 mm      | mm/min            | ≤80           |

| Processing Parameters     |        | Value     | Unit |
|---------------------------|--------|-----------|------|
| <b>Pre-treatment</b>      |        |           |      |
| Drying Temperature        |        | 85 ~ 100  | °C   |
| Drying Time               |        | 3 ~ 4     | hour |
| Maximum Moisture Content  |        | ≤0.05     | %    |
| <b>General Guidelines</b> |        |           |      |
| Barrel Temperature        | Rear   | 200 ~ 220 | °C   |
|                           | Middle | 230 ~ 240 | °C   |
|                           | Front  | 240 ~ 250 | °C   |
| Nozzle                    |        | 250 ~ 260 | °C   |
| Melt Temperature          |        | 240 ~ 260 | °C   |
| Mold Temperature          |        | 50 ~ 80   | °C   |

**Note :**

1. Values are measured at 23°C and in RH of 50% on injection molded specimens.
2. Typical values for uncolored products, not specifications, and may vary slightly with different colors.
3. Flexural strength is tested with fixed deflection.
4. HDT: specimens are unannealed.
5. The general guidelines are only for reference. Exact settings have to follow the product and machine conditions.

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