

## Technical Data Sheet

# XC230

## ASA

### PRODUCT DESCRIPTION:

ASA XC230 is a type of high heat-resistance grade of ASA resin, with excellent weatherability, high rigidity and toughness.

### FEATURES:

- High heat
- Good UV stability

### APPLICATION:

- Sun visor
- Radiator grill

| Properties                  | Standard | Condition         | Unit              | Typical Value |
|-----------------------------|----------|-------------------|-------------------|---------------|
| <b>Physical</b>             |          |                   |                   |               |
| Density                     | ISO 1183 | 23°C              | g/cm <sup>3</sup> | 1.08          |
| Mold Shrinkage              | ISO 294  | 23°C, 48hr        | %                 | 0.4-0.7       |
| <b>Mechanical</b>           |          |                   |                   |               |
| Tensile Strength at Yield   | ISO 527  | 50mm/min          | MPa               | 47            |
| Elongation at Break         | ISO 527  | 50mm/min          | %                 | 15            |
| Flexural Strength           | ISO 178  | 2mm/min           | MPa               | 65            |
| Flexural Modulus            | ISO 178  | 2mm/min           | MPa               | 2200          |
| Notched Charpy Impact       | ISO 179  | 4J, 23°C          | kJ/m <sup>2</sup> | 12            |
| Notched Charpy Impact       | ISO 179  | 4J, -30°C         | kJ/m <sup>2</sup> | 2.5           |
| Rockwell Hardness           | ISO 2039 | 23°C              | R-scale           | 105           |
| <b>Thermal</b>              |          |                   |                   |               |
| Heat Deflection Temperature | ISO 75   | 120°C/hr, 0.45MPa | °C                | 95            |
| Heat Deflection Temperature | ISO 75   | 120°C/hr, 1.80MPa | °C                | 85            |
| Vicat Softening Temperature | ISO 306  | 50°C/hr, 5kg      | °C                | 102           |
| <b>Other Properties</b>     |          |                   |                   |               |
| Flammability                | ISO 3795 | 355x100x3 mm      | mm/min            | ≤80           |

| Processing Parameters     |        | Value     | Unit |
|---------------------------|--------|-----------|------|
| <b>Pre-treatment</b>      |        |           |      |
| Drying Temperature        |        | 80 ~ 95   | °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  | 245 ~ 255 | °C   |
| Nozzle                    |        | 240 ~ 250 | °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.

**Disclaimer :**

To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the data compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or process described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. You may not copy this document to a web site.

Kumho-Sunny expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication.