



GA400B

GA400B is a high flow grade of ABS resin for injection process. It provides high gloss and easy flow ability and prevent growth of bacteria. It is suitable for many injection applications where good surface finished and antimicrobial property is needed such as air conditioner, washing machine parts and etc. It also comply with antibacterial activity against growth of bacteria certified by JIS Z 2801:2000.

| | |
|------------------------------|---|
| Chemical Composition: | Acrylonitrile butadiene styrene grafted copolymer (ABS) with antibacterial additive |
| Physical Form: | Pellet |
| Application: | Injection molding for air conditioner , washing machine, etc. |
| Feature Benefits: | High flow and high gloss |

| Parameters | Method | Unit | Value |
|--|------------|-------------------------------------|-------|
| Mechanical Properties | | | |
| Tensile Strength at Yield (23°C) | ASTM D638 | kg/cm ² | 475 |
| Izod Notched Impact (23°C) | ASTM D 256 | Kg.cm/cm | 18 |
| Flexural Strength (23°C) | ASTM D790 | Kg/cm ² | 690 |
| Flexural Modulus (23°C) | ASTM D790 | ×10 ⁴ Kg/cm ² | 2.40 |
| Rockwell Hardness (1/4", 23°C) | ASTM D785 | R-Scale | 111 |
| Rheological Properties | | | |
| Melt Flow Index (220°C/10 kg) | ASTM D1238 | g/10 min | 39 |
| Thermal Properties | | | |
| Heat Distortion Temperature (1/4", 18.6 kg/cm ²) | ASTM D648 | °C | 83 |

Processing Technique

Drying Temperature : 80-85 °C, 2-4 hrs.

Processing Temperature : 180-240°C

However, the actual processing conditions depend on mold design, power of machine, screw configurations and other environments.

Packaging

GA400B is supplied in jumbo bag 900&650 kg. and paper bag 25 kg.

Remark: The values presented on the above are typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitable of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.

Antibacterial Effects

Antibacterial Activity and Efficacy of GA400B

GA400B has metal oxides which shows antibacterial activity against growth of both Gram-negative and Gram-positive bacteria according to JIS Z 2801:2000.

| Tested Microorganism | %Reduction (relative) | Antimicrobial Activity (relative) |
|------------------------------|-----------------------|-----------------------------------|
| <i>Escherichia coli</i> | >99 | >2 |
| <i>Staphylococcus aureus</i> | >99 | >2 |

The antibacterial activity and efficacy of this product was tested and calculated against the untreated test piece after 24 hrs.

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