

# KumhoSunny ABS HAG5220FR

Acrylonitrile Butadiene Styrene

Shanghai KumhoSunny Plastics Co., Ltd.

## Message:

HAG5220FR is 20%GF and V0 enviromental ABS resin.It has balance flow properties,mechanical properties and a wide processing window.HAG5220FR is mainly used in electric & electron parts, air-condition fan, office equipments requiring flame class,etc.

| General Information                                     |                                    |                   |                         |
|---------------------------------------------------------|------------------------------------|-------------------|-------------------------|
| Filler / Reinforcement                                  | Glass Fiber,20% Filler by Weight   |                   |                         |
| Features                                                | Flame Retardant                    |                   |                         |
| Uses                                                    | Business Equipment                 |                   |                         |
|                                                         | Electrical/Electronic Applications |                   |                         |
| UL File Number                                          | E254819                            |                   |                         |
|                                                         | E65424                             |                   |                         |
| Forms                                                   | Pellets                            |                   |                         |
| Processing Method                                       | Injection Molding                  |                   |                         |
| Physical                                                | Nominal Value                      | Unit              | Test Method             |
| Specific Gravity                                        | 1.30                               | g/cm <sup>3</sup> | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)               | 12                                 | g/10 min          | ASTM D1238              |
| Molding Shrinkage - Flow                                | 0.20 to 0.40                       | %                 | ASTM D955               |
| Mechanical                                              | Nominal Value                      | Unit              | Test Method             |
| Tensile Strength                                        | 80.0                               | MPa               | ASTM D638               |
| Tensile Elongation (Break)                              | 5.0                                | %                 | ASTM D638               |
| Flexural Modulus                                        | 5500                               | MPa               | ASTM D790               |
| Flexural Strength                                       | 110                                | MPa               | ASTM D790               |
| Impact                                                  | Nominal Value                      | Unit              | Test Method             |
| Notched Izod Impact (3.20 mm)                           | 100                                | J/m               | ASTM D256               |
| Thermal                                                 | Nominal Value                      | Unit              | Test Method             |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 98.0                               | °C                | ASTM D648               |
| Vicat Softening Temperature                             | 112                                | °C                | ASTM D1525 <sup>1</sup> |
| 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                                            |                                    |                   | UL 94                   |
| 1.50 mm                                                 | V-0                                |                   |                         |
| 3.00 mm                                                 | V-0                                |                   |                         |

| Additional Information | Nominal Value    |      |
|------------------------|------------------|------|
| CSA File No.           | LS 66457         |      |
| Injection              | Nominal Value    | Unit |
| Drying Temperature     | 80.0 to 90.0     | °C   |
| Drying Time            | 2.0 to 3.0       | hr   |
| Suggested Max Moisture | 0.050            | %    |
| Rear Temperature       | 210 to 220       | °C   |
| Middle Temperature     | 220 to 230       | °C   |
| Front Temperature      | 220 to 240       | °C   |
| Nozzle Temperature     | 220 to 240       | °C   |
| Processing (Melt) Temp | 210 to 230       | °C   |
| Mold Temperature       | 40.0 to 80.0     | °C   |
| Back Pressure          | 1.00 to 5.00     | MPa  |
| Screw Speed            | 30 to 60         | rpm  |
| NOTE                   |                  |      |
| 1.                     | Rate B (120°C/h) |      |

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