HAG5223

HAG5223 is 20%GF ABS resin with heat resistance. HAG5223 is mainly used in axial and centrifuge inertia fan blades of air-condition, automobile parts, camera equipment, etc.

| Properties | Standard | Unit | Condition | Typical Value |
|---|------------|------------------------|---------------|---------------|
| Physical | | | | |
| Density | ASTM D792 | g/cm3 | | 1.2 |
| Melt Index | ASTM D1238 | g/10min | 220℃×10kg | 7 |
| Mold Shrinkage | ASTM D955 | % | | 0.1~0.3 |
| Mechanical | | | | |
| Tensile Strength | ASTM D638 | MPa | | 90 |
| Tensile Elongation at Break | ASTM D638 | % | | 6 |
| Flexural Strength | ASTM D790 | MPa | | 110 |
| Flexural Modulus | ASTM D790 | MPa | | 5200 |
| Notched Izod Impact,3.2mm | ASTM D256 | J/m | 3.2mm,Notched | 100 |
| Thermal | | | | |
| Heat Deflection Temp. 1.82MPa Unannealed | ASTM D648 | $^{\circ}\!\mathrm{C}$ | 1.82MPa | 110 |
| VICAT | ASTM D1525 | $^{\circ}$ C | В | 120 |
| Flammability | | | | |
| Flammability | UL-94 | Class | _ | НВ |
| Electrical Properties | | | | |
| Volume Resistivity | IEC 60093 | Ohm-cm | 1 | > 1.0E+14 |
| Surface Resistivity | IEC 60093 | Ohm | 1 | > 1.0E+14 |

Note: 1) These are typical property values, not specifications.

- 2) In case of colored products, the values could vary slightly by color.
- 3) Values are measured at 23 °C and in RH of 50% on injection molded specimens.
- 4) UL File No. E65424(CSA File No.LS 66457),E254819.

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."

For more information please click:www.kumhosunny.com

HAG5223

| Processing Parameters | Typical Value | Unit |
|--------------------------|---------------|---------------|
| Drying Temperature | 80~90 | ${\mathbb C}$ |
| Drying Time | 3~4 | hour |
| Maximum moisture content | 0.05 | % |
| Barrel Temperature | | |
| Rear | 210~230 | ${\mathbb C}$ |
| Middle | 220~240 | $^{\circ}$ |
| Front | 220~240 | ${\mathbb C}$ |
| Nozzle | 220~240 | ${\mathbb C}$ |
| Melt Temperature | 200~230 | ${\mathbb C}$ |
| Mold Temperature | 50~80 | ${\mathbb C}$ |
| Back Pressure | 1~5 | MPa |
| Screw Speed | 30~60 | rpm |

Note:

1)The above data is only for reference. Exact settings have to follow the product,injection machine and mold.

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.

For more information please click:www.kumhosunny.com