

**HFA700HT**

ABS

Shanghai Kumho Sunny Plastics Co., Ltd.

| Processing/Physical Characteristics | Value  | Unit    | Test Standard |
|-------------------------------------|--------|---------|---------------|
| <b>ASTM Data</b>                    |        |         |               |
| Melt Flow Index, MFI                | 9      | g/10min | ASTM D 1238   |
| Temperature                         | 220    | °C      | -             |
| Load                                | 10     | kg      | -             |
| Mold Shrinkage, MD                  | 0.0045 | mm/mm   | ASTM D 955    |

| Mechanical properties       | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Strength            | 45    | MPa  | ASTM D 638    |
| Elongation at Break         | 15    | %    | ASTM D 638    |
| Flexural Modulus            | 2000  | MPa  | ASTM D 790    |
| Flexural Strength           | 55    | MPa  | ASTM D 790    |
| Izod Impact notched, 1/8 in | 140   | J/m  | ASTM D 256    |

| Thermal properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| <b>ASTM Data</b>   |       |      |               |
| UL 94 Flame rating | V-0   | -    | UL 94         |
| Thickness tested   | 1.6   | mm   | -             |
| DTUL @ 264 psi     | 93    | °C   | ASTM D 648    |
| Vicat Temperature  | 103   | °C   | ASTM D 1525   |

| Electrical properties | Value | Unit  | Test Standard |
|-----------------------|-------|-------|---------------|
| <b>ISO Data</b>       |       |       |               |
| Volume resistivity    | 1E14  | Ohm*m | IEC 62631-3-1 |
| Surface resistivity   | 1E14  | Ohm   | IEC 62631-3-2 |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1160  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 80 - 90   | °C   | -             |
| Pre-drying - Time                           | 2 - 3     | h    | -             |
| Processing humidity                         | ≤0.05     | %    | -             |
| Melt temperature                            | 210 - 230 | °C   | -             |
| Mold temperature                            | 40 - 80   | °C   | -             |
| Zone 1                                      | 200 - 210 | °C   | -             |
| Zone 2                                      | 210 - 220 | °C   | -             |
| Zone 3                                      | 210 - 225 | °C   | -             |
| Nozzle temperature                          | 210 - 225 | °C   | -             |
| Screw speed                                 | 30 - 60   | rpm  | -             |
| Back pressure                               | 1 - 5     | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Applications**

Electrical and Electronical

**Special Characteristics**

Flame retardant, Heat stabilized or stable to heat

**Regional Availability**

Asia Pacific