

**HSP8340GNH**

(PS+PPO)

Shanghai Kumho Sunny Plastics Co., Ltd.

| Processing/Physical Characteristics | Value | Unit    | Test Standard |
|-------------------------------------|-------|---------|---------------|
| <b>ASTM Data</b>                    |       |         |               |
| Melt Flow Index, MFI                | 50    | g/10min | ASTM D 1238   |
| Temperature                         | 220   | °C      | -             |
| Load                                | 10    | kg      | -             |
| Mold Shrinkage, MD                  | 0.006 | mm/mm   | ASTM D 955    |

| Mechanical properties       | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Strength            | 52    | MPa  | ASTM D 638    |
| Elongation at Break         | 15    | %    | ASTM D 638    |
| Flexural Modulus            | 2380  | MPa  | ASTM D 790    |
| Flexural Strength           | 78    | MPa  | ASTM D 790    |
| Izod Impact notched, 1/8 in | 185   | 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     | 85    | °C   | ASTM D 648    |
| Vicat Temperature  | 90    | °C   | ASTM D 1525   |

| Electrical properties | Value | Unit  | Test Standard |
|-----------------------|-------|-------|---------------|
| <b>ISO Data</b>       |       |       |               |
| Volume resistivity    | 1E15  | Ohm*m | IEC 62631-3-1 |
| Surface resistivity   | >1E15 | Ohm   | IEC 62631-3-2 |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1090  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 90 - 110  | °C   | -             |
| Pre-drying - Time                           | 2 - 3     | h    | -             |
| Processing humidity                         | ≤0.1      | %    | -             |
| Melt temperature                            | 240 - 270 | °C   | -             |
| Mold temperature                            | 50 - 80   | °C   | -             |
| Zone 1                                      | 230 - 240 | °C   | -             |
| Zone 2                                      | 240 - 250 | °C   | -             |
| Zone 3                                      | 250 - 265 | °C   | -             |
| Nozzle temperature                          | 250 - 260 | °C   | -             |
| Screw speed                                 | 20 - 100  | rpm  | -             |
| Back pressure                               | 0.2 - 0.8 | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Halogen-free

**Features**

High Gloss

**Applications**

Electrical and Electronical

**Regional Availability**

Asia Pacific