

HU650

ABS

Kumho Petrochemical Co., Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------|-------------------|-----------------|
| ISO Data | | | |
| Melt flow index, MFI | 5 | g/10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Molding shrinkage, parallel | 0.7 | % | ISO 294-4, 2577 |
| ASTM Data | | | |
| Melt Flow Index, MFI | 4 | g/10min | ASTM D 1238 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Mold Shrinkage, MD | 0.0065 | mm/mm | ASTM D 955 |
| Mechanical properties | | | |
| ISO Data | | | |
| Yield stress | 46 | MPa | ISO 527 |
| Strain at break | 20 | % | ISO 527 |
| Flexural modulus, 23°C | 2350 | MPa | ISO 178 |
| Flexural strength | 70 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 19 | kJ/m ² | ISO 179/1eU |
| Izod impact strength, +23°C | 18 | kJ/m ² | ISO 180/1U |
| Rockwell hardness | R 108 | - | ISO 2039-2 |
| ASTM Data | | | |
| Tensile Strength | 46.6 | MPa | ASTM D 638 |
| Flexural Modulus | 2203 | MPa | ASTM D 790 |
| Flexural Strength | 66.6 | MPa | ASTM D 790 |
| Rockwell Hardness | R 108 | - | ASTM D 785 |
| Izod Impact unnotched, 1/8 in | 198 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/4 in | 176 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 99 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 112 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 114 | °C | ISO 306 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.6 | mm | - |
| ASTM Data | | | |
| UL 94 Flame rating | HB | - | UL 94 |
| Thickness tested | 1.6 | mm | - |
| DTUL @ 264 psi | 104 | °C | ASTM D 648 |
| Vicat Temperature | 114 | °C | ASTM D 1525 |
| Other properties | | | |
| Density | 1040 | kg/m ³ | ISO 1183 |
| Density | 1040 | kg/m ³ | ASTM D 792 |

Characteristics**Special Characteristics**

Heat stabilized or stable to heat

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive