

ABS 720

ABS

Kumho Petrochemical Co., Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|---------------|-------------------|----------------------|
| ISO Data | | | |
| Melt flow index, MFI | 20 | 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 | 20 | 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 | 47 | MPa | ISO 527 |
| Strain at break | 22 | % | ISO 527 |
| Flexural modulus, 23°C | 2450 | MPa | ISO 178 |
| Flexural strength | 71 | MPa | ISO 178 |
| Charpy impact strength, +23°C | 22 | kJ/m ² | ISO 179/1eU |
| Izod impact strength, +23°C | 21 | kJ/m ² | ISO 180/1U |
| Rockwell hardness | R 112 | - | ISO 2039-2 |
| ASTM Data | | | |
| Tensile Strength | 48.3 | MPa | ASTM D 638 |
| Flexural Modulus | 2546 | MPa | ASTM D 790 |
| Flexural Strength | 69.5 | MPa | ASTM D 790 |
| Rockwell Hardness | R 112 | - | ASTM D 785 |
| Izod Impact unnotched, 1/8 in | 246 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/4 in | 198 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 82 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 93 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 97 | °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 | 87.2 | °C | ASTM D 648 |
| Vicat Temperature | 97.2 | °C | ASTM D 1525 |
| Other properties | | | |
| Density | 1040 | kg/m ³ | ISO 1183 |
| Density | 1040 | kg/m ³ | ASTM D 792 |

Characteristics**Regional Availability**

North America, Europe, Asia Pacific