

UMG Alloy® TA-35

ABS

Techno-UMG Co., Ltd.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 7 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|--------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 1900 | MPa | ISO 527 |
| Tensile Strength | 49 | MPa | ISO 527 |
| Flexural modulus, 23°C | 2000 | MPa | ISO 178 |
| Flexural strength | 73 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 50 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 20 | kJ/m ² | ISO 179/1eA |
| Rockwell hardness | R 105 | - | ISO 2039-2 |

| Thermal properties | Value | Unit | Test Standard |
|---|--------------|-------------|----------------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 106 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 85 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 3.0 | mm | - |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 1140 | kg/m ³ | ISO 1183 |

Characteristics**Regional Availability**

Asia Pacific