

**UMG ABS® EX120**

ABS

Techno-UMG Co., Ltd.

| <b>Processing/Physical Characteristics</b> | <b>Value</b> | <b>Unit</b>            | <b>Test Standard</b> |
|--|--------------|------------------------|----------------------|
| <b>ISO Data</b>                            |              |                        |                      |
| Melt volume-flow rate, MVR                 | <b>26</b>    | cm <sup>3</sup> /10min | ISO 1133             |
| Temperature                                | <b>220</b>   | °C                     | -                    |
| Molding shrinkage, parallel                | <b>0.5</b>   | %                      | ISO 294-4, 2577      |

| <b>Mechanical properties</b>          | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|---------------------------------------|--------------|-------------------|----------------------|
| <b>ISO Data</b>                       |              |                   |                      |
| Tensile Modulus                       | <b>2300</b>  | MPa               | ISO 527              |
| Tensile Strength                      | <b>44</b>    | MPa               | ISO 527              |
| Flexural modulus, 23°C                | <b>2500</b>  | MPa               | ISO 178              |
| Flexural strength                     | <b>71</b>    | MPa               | ISO 178              |
| Charpy notched impact strength, +23°C | <b>16</b>    | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Charpy notched impact strength, -30°C | <b>8</b>     | kJ/m <sup>2</sup> | ISO 179/1eA          |
| Rockwell hardness                     | <b>R 106</b> | -                 | ISO 2039-2           |

| <b>Thermal properties</b>                   | <b>Value</b> | <b>Unit</b> | <b>Test Standard</b> |
|---|--------------|-------------|----------------------|
| <b>ISO Data</b>                             |              |             |                      |
| Temp. of deflection under load, 1.80 MPa    | <b>79</b>    | °C          | ISO 75-1/-2          |
| Coeff. of linear therm. expansion, parallel | <b>80</b>    | E-6/K       | ISO 11359-1/-2       |
| Burning behav. at 1.5 mm nom. thickn.       | <b>HB</b>    | class       | IEC 60695-11-10      |
| Thickness tested                            | <b>1.5</b>   | mm          | -                    |
| Burning behav. at thickness h               | <b>HB</b>    | class       | IEC 60695-11-10      |
| Thickness tested                            | <b>0.9</b>   | mm          | -                    |

| <b>Other properties</b> | <b>Value</b> | <b>Unit</b>       | <b>Test Standard</b> |
|-------------------------|--------------|-------------------|----------------------|
| Density                 | <b>1050</b>  | kg/m <sup>3</sup> | ISO 1183             |

**Characteristics****Regional Availability**

Asia Pacific