

**UMG Alloy® TC-41M**

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>5</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>220</b>	°C	-
Molding shrinkage, parallel	<b>0.6</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>1900</b>	MPa	ISO 527
Tensile Strength	<b>46</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>1900</b>	MPa	ISO 178
Flexural strength	<b>64</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>50</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>25</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Rockwell hardness	<b>R 104</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>103</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>85</b>	E-6/K	ISO 11359-1/-2

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1110</b>	kg/m <sup>3</sup>	ISO 1183

**Characteristics****Regional Availability**

Asia Pacific