

## Physical properties

■ Grade : VE-1877

Item	Condition	Measuring Method	Unit	Representative
<b>Physical</b>				
Specific Gravity	Natural Color	ASTM D 792	-	1.17
Melt Flow Index	200℃ 5kg	ASTM D 1238	g/10min	14.5
Mold Shrinkage	-	ASTM D 955	%	0.4~0.7
<b>Mechanical</b>				
Tensile Strength	20mm/min	ASTM D 638	MPa ( psi ) kgf/cm <sup>2</sup>	28 ( 4,000 ) 285
Flexural Strength	2.8mm/min	ASTM D 790	MPa ( psi ) kgf/cm <sup>2</sup>	36 ( 5,100 ) 362
Flexural Modulus	2.8mm/min	ASTM D 790	MPa ( psi ) kgf/cm <sup>2</sup>	1,960 ( 280,000 ) 20,000
IZOD Impact Strength (notched)	1/8 inch	ASTM D 256	J/m ( ft·lbf/in ) kgf·cm/cm	108 ( 2 ) 11
Rockwell Hardness	R-Scale	ASTM D 785	-	85
<b>Thermal</b>				
Heat Deflection Temperature	18.56kgf/cm <sup>2</sup>	ASTM D 648	°F ( °C )	162 ( 72 )
VICAT Softening Temperature	5kg	ISO R 306	°F ( °C )	180 ( 82 )
<b>Flammability</b>				
UL 94 Classification	1.5 mm specimen 2.1 mm specimen 3.0 mm specimen		Recognized	V-0