

## Data Sheet of SKYGREEN JN200

### ● Injection Molded Property (ASTM Method)

Property	Test Method	Unit	Typical Values
<b>Physical</b>			
<b>Specific Gravity</b>	ASTM D792	-	1.23
<b>Mold Shrinkage</b> Parallel to Flow	ASTM D955	%	0.2 – 0.5
<b>Rockwell Hardness</b>	ASTM D785	R-scale	105
<b>Water Absorption</b> (24 hr immersion)	ASTM D570	%	0.13
<b>Mechanical</b>			
<b>Tensile Strength @ Yield</b> 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm <sup>2</sup> ) psi	45 (460) 6500
<b>Tensile Strength @ Break</b> 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm <sup>2</sup> ) psi	53 (540) 7700
<b>Elongation @ Yield</b> 50mm/min (2 inch/min)	ASTM D638	%	5.0
<b>Elongation @ Break</b> 50mm/min (2 inch/min)	ASTM D638	%	340
<b>Flexural Strength</b> 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm <sup>2</sup> ) psi	67 (680) 9700
<b>Flexural Modulus</b> 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm <sup>2</sup> ) psi	1800 (18354) 2.6×10 <sup>5</sup>
<b>Izod Impact Strength, Notched @ 23 °C(73 °F)</b>	ASTM D256	J/m(kgf · cm/cm)	N.B.
<b>Mechanical (ISO Method)</b>			
<b>Tensile Strength @ Yield</b> 50mm/min (2 inch/min)	ISO 527	MPa (kgf/cm <sup>2</sup> ) psi	45 (460) 6500
<b>Tensile Strength @ Break</b> 50mm/min (2 inch/min)	ISO 527	MPa (kgf/cm <sup>2</sup> ) psi	47 (480) 6800
<b>Elongation @ Yield</b> 50mm/min (2 inch/min)	ISO 527	%	4.5
<b>Elongation @ Break</b> 50mm/min (2 inch/min)	ISO 527	%	230
<b>Flexural Strength</b> 1.27mm/min (0.05 inch/min)	ISO 178	MPa (kgf/cm <sup>2</sup> ) psi	63 (640) 9100
<b>Flexural Modulus</b> 1.27mm/min (0.05 inch/min)	ISO 178	MPa (kgf/cm <sup>2</sup> ) psi	1800 (18354) 2.6×10 <sup>5</sup>
<b>Izod Impact Strength, Notched @ 23 °C(73 °F)</b>	ISO 180	kJ/m <sup>2</sup>	125
<b>Thermal</b>			
<b>Heat Distortion Temperature</b> @ 0.455 MPa(66 psi) @ 1.82 MPa(264 psi)	ASTM D648	°C (°F) °C (°F)	70 (158) 62 (143)
<b>Thermal (ISO Method)</b>			
<b>Heat Distortion Temperature</b> @ 0.45 MPa @ 1.80 MPa	ISO 75	°C °C	70 62
<b>Optical</b>			
<b>Haze</b>	ASTM D1003	%	< 1.0
<b>Total Transmittance</b>	ASTM D1003	%	90

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