

Typical Properties for SKYGREEN[®] KN100

•Injection Molded Property (ASTM Method)

Property	Test Method	Unit	Typical Values
Specific Gravity	ASTM D792	-	1.27
Mold Shrinkage (Parallel to Flow)	ASTM D955	%	0.2~0.5
Rockwell Hardness	ASTM D785	R-scale	108
Mechanical			
Tensile Strength @ Yield 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm ²)	50 (510)
Tensile Strength @ Break 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm ²)	29 (300)
Elongation @ Yield 50mm/min (2 inch/min)	ASTM D638	%	4.5
Elongation @ Break 50mm/min (2 inch/min)	ASTM D638	%	180
Flexural Strength 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm ²)	69 (700)
Flexural Modulus 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm ²)	2100 (21400)
Izod Impact Strength, Notched @ 23 °C(73 °F)	ASTM D256	J/m	105
Thermal			
Heat Distortion Temperature @ 0.455 MPa(66 psi) @ 1.820 MPa(66 psi)	ASTM D648	°C (°F)	70 (158) 62 (143)
Optical			
Haze	ASTM D1003	%	< 1.0
Transmittance	ASTM D1003	%	90
Thermal properties (Flammability)			
UL Flammability Classification			
@ 1.0mm thickness			HB
@ 1.5mm thickness	UL-94	-	HB
@ 3.0mm thickness			V-2

The data listed here is preliminary data sheet of product. Therefore this sheet should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Customers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. SK Chemicals assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties of merchantability for a particular purpose or use are excluded and disclaimed.

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The information in this data sheet is, to the best of our knowledge, true and accurate. The representations about the product are based upon test results achieved under laboratory practices supervised and controlled by SK chemicals corporation.