

## Typical Properties for SKYPET® BR-V

### •Injection Molded Property (ISO & ASTM Method)

Property	Test Method	Unit	Typical Values
<i>Physical &amp; Mechanical</i>			
<b>Specific Gravity</b>	<b>ISO1183</b>	<b>-</b>	<b>1.33</b>
<b>Rockwell Hardness</b>	<b>ASTM D785</b>	<b>R-scale</b>	<b>105</b>
<b>Mold Shrinkage, 3.2mm</b>	<b>ASTM D955</b>	<b>%</b>	<b>0.3 – 0.6</b>
<i>Mechanical</i>			
<b>Tensile Strength @ Yield</b> 50mm/min (2 inch/min)	<b>ISO527</b>	<b>MPa</b>	<b>49.9</b>
<b>Tensile Strength @ Break</b> 50mm/min (2 inch/min)	<b>ISO527</b>	<b>MPa</b>	<b>25.4</b>
<b>Elongation @ Yield</b> 50mm/min (2 inch/min)	<b>ISO527</b>	<b>%</b>	<b>4.5</b>
<b>Elongation @ Break</b> 50mm/min (2 inch/min)	<b>ISO527</b>	<b>%</b>	<b>&gt; 50</b>
<b>Flexural Strength</b> 1.27mm/min (0.05 inch/min)	<b>ISO178</b>	<b>MPa</b>	<b>60.8</b>
<b>Flexural Modulus</b> 1.27mm/min (0.05 inch/min)	<b>ISO178</b>	<b>MPa</b>	<b>1181</b>
<b>Izod Impact Strength, Notched @ 23 °C</b>	<b>ISO180</b>	<b>kJ/m<sup>2</sup></b>	<b>3.6</b>
<b>Izod Impact Strength, Notched @ -40 °C</b>	<b>ISO180</b>	<b>kJ/m<sup>2</sup></b>	<b>2.3</b>
<i>Thermal</i>			
<b>Heat Distortion Temperature @ 0.45 MPa</b>	<b>ISO75</b>	<b>°C</b>	<b>66.5</b>
<i>Optical</i>			
<b>Haze</b>	<b>ASTM D1003</b>	<b>%</b>	<b>&lt; 1.0</b>
<b>Total Transmittance</b>	<b>ASTM D1003</b>	<b>%</b>	<b>89</b>
<i>Permeability</i>			
<b>CO<sub>2</sub></b>	<b>ASTM D1434</b>	<b>cm<sub>3</sub>mm / m<sub>2</sub> day atm</b>	<b>21.3</b>
<b>O<sub>2</sub></b>	<b>ASTM D3985</b>	<b>cm<sub>3</sub>mm / m<sub>2</sub> day atm</b>	<b>3.9</b>
<b>Water</b>	<b>ASTM F372</b>	<b>g mm / m<sub>2</sub> day atm</b>	<b>1.6</b>
<i>Flammability</i>			
<b>UL Flammability Classification</b>	<b>UL 94</b>	<b>-</b>	<b>HB</b>

#### Headquarter / R&D center

686 Sampyung-Dong, Bundang-Gu, Seongnam-Si,  
Gyeonggi-Do, 463-400 Korea  
TEL : + 82-2-2008-2008 / FAX : + 82-2-2008-2009

#### Ulsan Plant

600 Hwangseong-Dong, Nam-Gu,  
Ulsan 680-160 KOREA  
TEL : + 82-52-256-0121 / FAX : + 82-52-256-0652

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.