

## Typical Properties for SKYPET® BR

### •Injection Molded Property (ASTM Method)

Property	Test Method	Unit	Typical Values
<i>Physical &amp; Mechanical</i>			
<b>Specific Gravity</b>	ASTM D792	-	1.33
<b>Rockwell Hardness</b>	ASTM D785	R-scale	116
<b>Mold Shrinkage, 3.2mm</b>	ASTM D955	%	0.3 – 0.5
<b>Water Absorption</b>	ASTM D570	%	< 0.3
<i>Mechanical</i>			
<b>Tensile Strength @ Yield</b> 50mm/min (2 inch/min)	ASTM D638	Mpa (kgf/cm <sup>2</sup> ) Psi	60 (612) 8704
<b>Tensile Strength @ Break</b> 50mm/min (2 inch/min)	ASTM D638	Mpa (kgf/cm <sup>2</sup> ) Psi	25 (255) 3627
<b>Elongation @ Yield</b> 50mm/min (2 inch/min)	ASTM D638	%	4.1
<b>Elongation @ Break</b> 50mm/min (2 inch/min)	ASTM D638	%	120
<b>Flexural Strength</b> 1.27mm/min (0.05 inch/min)	ASTM D638	Mpa (kgf/cm <sup>2</sup> ) Psi	83 (846) 12033
<b>Flexural Modulus</b> 1.27mm/min (0.05 inch/min)	ASTM D638	Mpa (kgf/cm <sup>2</sup> ) Psi	2540 (25908) 3.7×10 <sup>5</sup>
<b>Izod Impact Strength, Notched @ 23 °C</b>	ASTM D638	J/m	56
<b>Izod Impact Strength, Notched @ -40 °C</b>	ASTM D638	J/m	32
<i>Thermal</i>			
<b>Heat Distortion Temperature @ 0.455 Mpa (66psi)</b>	ASTM D638	°C (°F)	69 (156)
<i>Optical</i>			
<b>Haze</b>	ASTM D1003	%	< 1.0
<b>Total Transmittance</b>	ASTM D1003	%	89
<i>Melt</i>			
<b>Melt Viscosity @ 275°C Shear Rate = 10,000(1/s)</b>	Capillary Rheometer	poise	679
<i>Flammability</i>			
<b>UL Flammability Classification @ 3.0mm thickness</b>	UL 94	-	HB

#### 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.