

Typical Properties for SKYPET® BR

•Injection Molded Property (ASTM Method)

Property	Test Method	Unit	Typical Values
<i>Physical & Mechanical</i>			
Specific Gravity	ASTM D792	-	1.34
Rockwell Hardness	ASTM D785	R-scale	115
Mold Shrinkage, 3.2mm	ASTM D955	%	0.3 – 0.6
Water Absorption	ASTM D570	%	< 0.3
<i>Mechanical</i>			
Tensile Strength @ Yield 50mm/min (2 inch/min)	ASTM D638	Mpa (kgf/cm ²) Psi	57 (601) 8557
Tensile Strength @ Break 50mm/min (2 inch/min)	ASTM D638	Mpa (kgf/cm ²) Psi	23 (245) 3480
Elongation @ Yield 50mm/min (2 inch/min)	ASTM D638	%	3.9
Elongation @ Break 50mm/min (2 inch/min)	ASTM D638	%	112
Flexural Strength 1.27mm/min (0.05 inch/min)	ASTM D638	Mpa (kgf/cm ²) Psi	83 (846) 12038
Flexural Modulus 1.27mm/min (0.05 inch/min)	ASTM D638	Mpa (kgf/cm ²) Psi	2330 (23759) 3.38×10 ⁵
Izod Impact Strength, Notched @ 23 °C	ASTM D638	J/m	37
Izod Impact Strength, Notched @ -40 °C	ASTM D638	J/m	20
<i>Thermal</i>			
Heat Distortion Temperature @ 0.455 Mpa (66psi)	ASTM D638	°C (°F)	69 (156)
<i>Optical</i>			
Haze	ASTM D1003	%	< 1.0
Total Transmittance	ASTM D1003	%	88
<i>Melt</i>			
Melt Viscosity @ 275°C Shear Rate = 10,000(1/s)	Capillary Rheometer	poise	745
<i>Flammability</i>			
UL Flammability Classification @ 3.0mm thickness	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.