

Data Sheet of **SKYPET-BR**

● Injection Molded Property (ASTM Method)

Property	Test Method	Unit	Typical Values
Physical			
Specific Gravity	ASTM D792	-	1.33
Mold Shrinkage Parallel to Flow	ASTM D955	%	0.3 – 0.5
Rockwell Hardness	ASTM D785	R-scale	116
Water Absorption (24 hr immersion)	ASTM D570	%	< 0.3
Mechanical			
Tensile Strength @ Yield 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm ²) psi	60 (612) 8704
Tensile Strength @ Break 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm ²) psi	25 (255) 3627
Elongation @ Yield 50mm/min (2 inch/min)	ASTM D638	%	4.1
Elongation @ Break 50mm/min (2 inch/min)	ASTM D638	%	120
Flexural Strength 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm ²) psi	83 (846) 12033
Flexural Modulus 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm ²) psi	2540 (25908) 3.7×10 ⁵
Izod Impact Strength, Notched @ 23 °C(73 °F)	ASTM D256	J/m(kgf · cm/cm)	56
Izod Impact Strength, Notched @ -40 °C(73 °F)	ASTM D256	J/m(kgf · cm/cm)	32
Thermal			
Heat Distortion Temperature @ 0.455 MPa(66 psi)	ASTM D648	°C (°F)	69 (156)
Optical			
Haze	ASTM D1003	%	< 1.0
Total Transmittance	ASTM D1003	%	89
Melt			
Melt Viscosity @ 275 °C Shear Rate = 10000(1/s)	Capillary Rheometer	poise	679
Flammability			
UL Flammability Classification @ 3.0mm thickness	UL 94	-	HB

