

Table 1: Comparison of the properties of PBS with polypropylene and polyethylene

		PBS	PP	PE (LDPE / HDPE)
Heat Distortion temperature (HDT-B)	°C	97	145	88 - 110
Melting temperature	°C	115 - 118	164	108 - 130
Glass transition temperature	°C	-32	+5	-120
Crystallization temperature	°C	75	120	80 - 104
Tensile strength at break	MPa	57	44	35 - 39
Elongation at break	%	700	800	400 - 650
Crystallinity	%	35 - 45	56	49 - 69
Density	g/cm ³	1.26	0.90	0.92 - 0.95

Data source: Biodegradable Plastic, Product Data, SHOWA HIGHPOLYMER CO., LTD., 2009