

# Biomass TPE Compound



## <Injection General Grade>

Applications	Units	RB-LI50C2	RB-LI60C2	RB-LI70C2	RB-LI80C2	RB-LI90C2	Standard
Transparency	—	Translucent	Translucent	Translucent	Translucent	Translucent	—
Biomass rating	%	11	13	12	12	11	—
Hardness HDA (15s delay)	—	50	60	70	80	90	JIS K 6253
Specific gravity	—	0.89	0.89	0.89	0.90	0.90	JIS K 7112
Tensile strength	MPa	6.1	8.9	11.2	13.8	17.3	JIS K 6251
Modulus at 100% elongation	MPa	1.4	1.9	2.6	3.7	5.3	
Elongation at break	%	730	730	740	730	720	
Compression Set(70°C×22hr)	%	37	40	45	54	60	JIS K 6262

## <Injection Transparent Grade>

Applications	Units	RB-LI50T1	RB-LI70T1	RB-LI90T1	RB-LI50C1	RB-LI70C1	RB-LI90C1	Standard
Transparency	—	Transparent	Transparent	Transparent	Transparent	Transparent	Transparent	—
Biomass rating	%	12	12	11	34	32	30	—
Hardness HDA (15s delay)	—	50	70	90	51	71	87	JIS K 6253
Specific gravity	—	0.89	0.89	0.89	0.90	0.90	0.90	JIS K 7112
Tensile strength	MPa	8.6	10.9	13.5	6.5	9.0	12.0	JIS K 6251
Modulus at 100% elongation	MPa	2.0	3.4	4.9	3.6	3.7	6.8	
Elongation at break	%	720	710	710	500	550	550	
Compression Set(70°C×22hr)	%	90	83	80	35	54	65	JIS K 6262

Notes : These performances are typical value, and are not spec value for guarantee.

# Biomass TPE Compound



## <Extrusion General Grade>

Applications	Units	RB-ME50F2	RB-ME60F2	RB-M70F3	RB-ME80F2	RB-ME90F2	Standard
Transparency	—	Opaque	Opaque	Opaque	Opaque	Opaque	—
Biomass rating	%	10	11	10	12	10	—
Hardness HDA (15s delay)	—	49	60	71	81	90	JIS K 6253
Specific gravity	—	0.94	0.94	0.95	0.96	0.96	JIS K 7112
Tensile strength	MPa	13.4	15.2	17.2	22.8	23.1	JIS K 6251
Modulus at 100% elongation	MPa	1.3	2.0	2.8	3.9	5.8	
Elongation at break	%	990	980	950	890	890	
Compression Set(70°C×22hr)	%	40	43	49	52	57	JIS K 6262

## <Extrusion High Biomass Rating Grade>

Applications	Units	RB-ME50F1	RB-ME60F1	RB-M70F2	RB-ME80F1	RB-ME90F1	Standard
Transparency	—	Opaque	Opaque	Opaque	Opaque	Opaque	—
Biomass rating	%	28	27	32	33	31	—
Hardness HDA (15s delay)	—	49	60	70	78	88	JIS K 6253
Specific gravity	—	0.95	0.95	0.95	0.96	0.97	JIS K 7112
Tensile strength	MPa	7.6	8.3	9.3	13.2	16.2	JIS K 6251
Modulus at 100% elongation	MPa	1.6	1.9	2.6	3.7	5.4	
Elongation at break	%	810	870	880	920	880	
Compression Set(70°C×22hr)	%	47	57	62	69	70	JIS K 6262

Notes : These performances are typical value, and are not spec value for guarantee.

# Biomass TPE Compound



## < Injection Adhesive Grade >

Applications	Units	RB-BI40C1	RB-BI50C1	RB-BI60C1	RB-BI70C1	試験方法
Transparency	—	Opaque	Opaque	Opaque	Opaque	—
Biomass rating	%	10	11	12	14	—
Hardness HDA (15s delay)	—	40	50	60	71	JIS K 6253
Specific gravity	—	0.95	0.96	0.97	0.98	JIS K 7112
Tensile strength	MPa	3.9	5.3	6.9	9.7	JIS K 6251
Modulus at 100% elongation	MPa	1.2	1.7	2.2	3.0	
Elongation at break	%	600	640	670	670	
Adhesive strength						JIS K 6854-2 MF* : Material Failure
PC	N/25mm	65 (MF*)	88 (MF*)	128 (MF*)	140	
ABS	N/25mm	60 (MF*)	83	125	163	

Notes : These performances are typical value, and are not spec value for guarantee.