

Polyester (base) Thermoplastic Elastomer
Properties of PRIMALLOY Type A

Item	Method	Unit	A1400	A1500	A1600	A1700	A1800	A1900
Density	ISO 1183	g/cm ³	0.95	0.98	1.00	1.02	1.07	1.12
MFR (230 degC, 21.2N)	ISO 1133	g/10min	5	11	5	6	30	30
Hardness (Type A durometer)	ISO 7619-1	—	45	59	68	77	85	93
Hardness (Type D durometer)			—	—	—	—	—	30
Tensile Strength at Break	ISO 37	MPa	6	7	8.5	9	11	14
Elongation at Break		%	800	750	850	700	750	750
Compression Set (70°C × 22hr)	ISO 815 *1	%	59	63	66	65	67	76
Flammability	—	—	—	—	—	—	—	—
Mold Shrinkage (MD/TD)	Mitsubishi Chemical Method *2	%	3.0/0.5	2.7/0.5	2.0/0.1	1.1/0.4	0.3/0.8	0.5/0.7
Color	—	—	N: Natural	N/NS: Natural				N: Natural

- Contents in the properties were written in March 2012, and might be revised to improve it without advanced notice.
- Measured values written in the properties are typical without warranty.
- Before using products range, please make sure the legal regulation, conformity and safety limitation in the individual application by testing it in the experiment and checking it in the database list.
- Please pay attention to the patents owned by other companies.
- In the case of application touched to the human body, medical use and food contacting application, please consult us before using our products.
- Please let us know if there are any other queries or if we can help you in any way.
- *1; 6 sheets (each thickness=2mm)
- *2; Test plaque=120*120*2t

Polyester (base) Thermoplastic Elastomer
Properties of PRIMALLOY Type A Specialty Grades

Item	Method	Unit	Translucence		Good moldability		Good adhesive property for PA6	
			A1606	A1706	A1602	A1704	A1610	A1710
Density	ISO 1183	g/cm ³	1	1.02	1	1.09	1.01	1.03
MFR (230 degC, 21.2N)	ISO 1133	g/10min	3.5	7	3	6	9	10
Hardness (Type A durometer)	ISO 7619-1	—	68	77	71	80	65	79
Tensile Strength at Break	ISO 37	MPa	8	9	9	8	8	10
Elongation at Break		%	750	700	800	500	900	928
Compression Set (70°C × 22hr)	ISO 815 *1	%	62	64	63	67	71	72
Flammability	—	—	—	—	HB	HB	—	—
Mold Shrinkage (MD/TD)	Mitsubishi Chemical Method *2	%	1.8/0.8	1.3/0.7	1.4/0.6	1.4/0.8	1.4/0.7	0.8/0.6
Color	—	—	C: Translucence		N/NR: Natural B/BR: Black	N/NS: Natural B/BZ: Black	N: Natural	

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- *1; 6 sheets (each thickness=2mm)
- *2; Test plaque=120*120*2t

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Polyester (base) Thermoplastic Elastomer
Properties of PRIMALLOY Type B Low hardnes Grades

Item	Method	Unit	B1600	B1700	B1800
Density	ISO 1183	g/cm ³	0.97	0.99	1.03
MFR (230 degC, 21.2N)	ISO 1133	g/10min	2	0.5	10
Hardness (Type A durometer)	ISO 7619-1	—	61	71	81
Tensile Strength at Break	ISO 37	MPa	7	8.5	11
Elongation at Break		%	550	550	570
Tear Strength	ISO 34	N/mm	35	41	56
Flammability	—	—	—	—	—
Mold Shrinkage (MD/TD)	Mitsubishi Chemical Method *1	%	2.5/0.9	2.6/0.9	1.7/1.4
Color	—	—	N: Natural		

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- *1; Test plaque=120*120*2t

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Polyester (base) Thermoplastic Elastomer
Properties of PRIMALLOY Type B

Item	Method	Unit	B1900	B1910	B1920	B1922	B1932	B1942
Density	ISO 1183	g/cm ³	1.11	1.13	1.16	1.19	1.22	1.24
MFR (230 degC, 21.2N)	ISO 1133	g/10min	15	15	20	29	46	59
Hardness (Type D durometer)	ISO 868	—	35	41	47	50	58	60
Tensile Stress at Break	ISO 527	MPa	25	33	40	48	50	50
Nominal Tensile Strain at Break		%	900	700	700	700	700	600
Flexural Modulus	ISO 178	MPa	70	110	190	210	360	430
Flexural Stress			4.5	6.5	9.5	10	15.5	18
Tear Strength	ISO 34	N/mm	105	117	122	—	140	159
Flammability	UL94	—	HB	HB	HB	—	HB	—
Mold Shrinkage (MD/TD)	Mitsubishi Chemical Method *1	%	0.9/0.7	1.1/1.0	1.4/1.3	1.4/1.3	1.4/1.4	1.5/1.5
Color	—	—	NR/NS: Natural	N : Natural			N : Natural B : Black	N : Natural

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