

Polyester (base) Thermoplastic Elastomer  
Properties of PRIMALLOY Type A

Item	Method	Unit	A1400	A1500	A1600	A1700	A1800	A1900
Density	ISO 1183	g/cm <sup>3</sup>	0.94	0.98	1	1.02	1.07	1.12
MFR (230 degC, 21.2N)	ISO 1133	g/10min	5	11	6	11	29	35
Hardness (Type A durometer)	ISO 7619-1	—	45	58	68	76	84	92
Hardness (Type D durometer)			—	—	—	—	—	30
Tensile Strength at Break	ISO 37	MPa	6	8	10	10	12	15
Elongation at Break		%	790	790	850	730	820	860
Compression Set (70°C × 22hr)	ISO 815 *1	%	60	61	66	64	68	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

- Contents in the properties were written in Sep 2013, 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

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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 <sup>3</sup>	1	1.02	1	1.08	1.01	1.03
MFR (230 degC, 21.2N)	ISO 1133	g/10min	3.2	10	3	9	10	10
Hardness (Type A durometer)	ISO 7619-1	—	69	77	71	77	67	77
Tensile Strength at Break	ISO 37	MPa	10	9	10	8	11	13
Elongation at Break		%	750	760	820	470	780	790
Compression Set (70°C × 22hr)	ISO 815 *1	%	60	64	61	67	71	72
Flammability	UL94	—	—	—	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

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

Item	Method	Unit	B1600	B1700	B1800
Density	ISO 1183	g/cm <sup>3</sup>	0.97	0.97	1.01
MFR (230 degC, 21.2N)	ISO 1133	g/10min	2	0.5	10
Hardness (Type A durometer)	ISO 7619-1	—	61	68	83
Tensile Strength at Break	ISO 37	MPa	6	10	13
Elongation at Break		%	620	750	670
Tear Strength	ISO 34	N/mm	35	41	56
Vicat Softening Temperature (50°C/hr 10N)	JIS K7206-1999	°C	—	—	92
Flammability	UL94	—	—	—	—
Mold Shrinkage (MD/TD)	Mitsubishi Chemical Method*1	%	2.5/0.9	2.6/0.9	1.7/1.4

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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 <sup>3</sup>	1.11	1.14	1.16	1.19	1.22	1.24
MFR (230 degC, 21.2N)	ISO 1133	g/10min	27	24	28	33	52	62
Hardness (Type D durometer)	ISO 868	—	36	42	47	50	58	60
Tensile Strength at Break	ISO 527	MPa	27	32	38	48	41	48
Nominal Tensile Strain at Break		%	1030	860	820	900	610	670
Flexural Modulus	ISO 178	MPa	85	120	180	200	370	420
Flexural Stress			4.5	6.5	9.5	10	15.5	18
Tear Strength	ISO 34	N/mm	105	117	122	—	140	159
Vicat Softening Temperature (50°C/hr 10N)	JIS K7206-1999	°C	135	—	179	185	197	203
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

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