DURANEX®

Polybutylene Terephthalate (PBT)

Grade Compositions

POLYPLASTICS CO., LTD.

DURANEX® PBT
Grade Compositions

DURANEX® PBT is a crystalline thermoplastic based on polybutylene terephthalate (PBT) that can be readily strengthened, modified, or otherwise performance-enhanced through the addition of glass fibers or other inorganic filler additives. Therefore, as grades can be optimally designed depending on the application, various grades are provided, including flame-retardant grades, reinforced grades, and impact-resistant grades.

DURANEX® PBT Grade Line Up Table

Item	Unit	Test method	Slow burning, Standard							
			201AC	2000	2002	3105	3200	3300	3400	3405
			Unfilled	Unfilled	Unfilled	GF15% reinforced	GF20% reinforced	GF30% reinforced	GF40% reinforced	GF45% reinforced
			Standard	High flow	Toughness	Standard				
Density	g/cm^3	ISO 1183	1.31	1.31	1.31	1.41	1.45	1.53	1.64	1.70
Tensile strength	MPa	ISO 527-1,2	60	60	60	105	120	140	155	162
Strain at break	%	ISO 527-1,2	45 (＊1)	20 (＊1)	50 (＊1)	2.5	2.8	2.2	2.0	1.7
Flexural strength	MPa	ISO 178	86	89	95	160	176	220	245	254
Flexural modulus	MPa	ISO 178	2,410	2,500	2,630	5,330	6,570	9,030	12,500	14,500
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	3.3	3.2	3.4	5.8	6.7	10.5	12	16
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	70	73	70	207	207	213	214	214
Coefficient of linear thermal expansion (23~55° C) Flow direction	×10^{-5}/℃	Our standard	11	11	11	4	3	2	1	1
Coefficient of linear thermal expansion (23~55° C) Transverse direction	×10^{-5}/℃	Our standard	11	11	11	10	9	9	8	7
Electric strength (3mmt)	kV/mm	IEC 60243-1	17	17	14	20	22	23	24	24
Volume resistivity	Ω・cm	IEC 60093	6×10^{16}	5×10^{16}	5×10^{16}	5×10^{15}	5×10^{16}	5×10^{16}	3×10^{16}	3×10^{16}
Surface resistivity	Ω	IEC 60093	2×10^{17}	7×10^{16}	2×10^{17}	9×10^{15}	3×10^{17}	6×10^{16}	2×10^{16}	4×10^{16}
Tracking resistance (CTI)	V	IEC 60112	—	—	—	—	—	375	—	—
Flammability		UL94	—	HB	HB	HB	HB	HB	HB	HB
The yellow card File No. issued by UL	—	—	—	E213445	E213445	E213445	E213445	E213445	E213445	E213445

(＊1) Nominal strain at break

Item	Unit	Test method	Slow burning, Standard			Flame retardant, Standard, UL approved regrind 50% inclusive				
			3100H	3105H	3300H	GFR315	GFR320	GFR330	CN7000	CN7010
			GF7.5% reinforced	GF15% reinforced	GF30% reinforced	GF15% reinforced	GF20% reinforced	GF30% reinforced	Unfilled	GF10% reinforced
			Toughness			New standard			Standard	
Density	g/cm^3	ISO 1183	1.36	1.41	1.53	1.60	1.62	1.71	1.44	1.49
Tensile strength	MPa	ISO 527-1,2	81	108	140	107	119	129	56	90
Strain at break	%	ISO 527-1,2	4.0	3.3	2.4	2.5	2.4	1.9	10 (＊1)	3.5
Flexural strength	MPa	ISO 178	135	170	215	160	179	202	89	140
Flexural modulus	MPa	ISO 178	3,830	5,270	9,000	6,410	7,750	10,670	2,530	4,700
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	4.0	6.6	11.4	5.3	6.1	7.1	3.5	5.1
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	199	206	210	202	205	209	70	205
Coefficient of linear thermal expansion (23~55° C) Flow direction	×10^{-5}/℃	Our standard	6	4	2	—	—	2	10	5
Coefficient of linear thermal expansion (23~55° C) Transverse direction	×10^{-5}/℃	Our standard	10	10	9	—	—	7	10	9
Electric strength (3mmt)	kV/mm	IEC 60243-1	17	20	24	—	—	18	17	—
Volume resistivity	Ω・cm	IEC 60093	—	5×10^{16}	—	—	—	—	8×10^{15}	4×10^{16}
Surface resistivity	Ω	IEC 60093	—	9×10^{16}	—	—	—	—	1×10^{16}	7×10^{16}
Tracking resistance (CTI)	V	IEC 60112	—	—	—	—	—	225	200	—
Flammability		UL94	HB	HB	—	V-0	V-0	V-0	V-0	V-0
The yellow card File No. issued by UL	—	—	E213445	E213445	—	E213445	E213445	E213445	E213445	E213445

(＊1) Nominal strain at break

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Well-balanced highly reliable plastics

DURANEX® PBT, due to its mechanical strength, hest stability, electrical resistivity and wear and abrasion-resistance, offers great potential as a well-balanced, highly reliable material, having a wide variety of applications including electronic / electro-mechanical and automobile parts and various other functional parts.

Sophisticated quality to fit your precise needs

Not only does it have well-balanced properties as a raw material. **DURANEX® PBT** also assures moldability, dimensional stability, glossy surfaces and various fabrication capabilities providing higher added value.

DURANEX® PBT Grade Line Up Table

Item	Unit	Test method	Flame retardant, Standard, UL approved regrind 50% inclusive		Flame retardant, Low gas generation, Low contact contamination, UL approved regrind 50% inclusive			Halogen-free flame retardant system, Higher comparative tracking index		
			CN7015	CN7030	CRN7000GP	CRN7015GP	CRN7030GP	201NF	310NF	315NF
			GF15% reinforced	GF30% reinforced	Unfilled	GF15% reinforced	GF30% reinforced	Unfilled	GF10% reinforced	GF15% reinforced
			Standard		Standard			Standard		
Density	g/cm^3	ISO 1183	1.59	1.69	1.50	1.62	1.73	1.32	1.40	1.45
Tensile strength	MPa	ISO 527-1,2	102	127	64	111	135	50	70	80
Strain at break	%	ISO 527-1,2	2.3	1.9	7.0	2.5	1.9	10 (＊1)	3.5	2.8
Flexural strength	MPa	ISO 178	159	200	102	165	209	80	120	130
Flexural modulus	MPa	ISO 178	6,240	10,310	3,230	6,790	10,760	2,800	5,000	6,400
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	5.0	7.0	3.2	5.5	7.2	3.0	4.0	5.0
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	205	208	90	200	208	80	200	207
Coefficient of linear thermal expansion (23～55°C) Flow direction	×10^{-5}/℃	Our standard	4	2	—	4	2	10	5	4
Coefficient of linear thermal expansion (23～55°C) Transverse direction	×10^{-5}/℃	Our standard	8	7	—	8	7	10	9	8
Electric strength (3mmt)	kV/mm	IEC 60243-1	18	20	—	—	—	18	19	19
Volume resistivity	Ω・cm	IEC 60093	4×10^{16}	1×10^{16}	—	—	—	6×10^{16}	—	—
Surface resistivity	Ω	IEC 60093	3×10^{16}	5×10^{16}	—	—	—	1×10^{17}	—	—
Tracking resistance (CTI)	V	IEC 60112	—	225	—	—	—	600	550	550
Flammability		UL94	V-0	V-0	V-0	V-0	V-0	V-0	V-0	V-0
The yellow card File No. issued by UL	—	—	E213445	E213445	E213445	E213445	E213445	E213445	E213445	E213445

(＊1) Nominal strain at break

Item	Unit	Test method	Halogen-free flame retardant system, Higher comparative tracking index			Flame retardant, Higher comparative tracking index	Flame retardant, Excellent glowwire property	Super high flow, Slow burning		
			315NFK	320NF	330NF	CTN7133	330GW	SF3300	SF733LD	SF755
			GF15% reinforced	GF20% reinforced	GF30% reinforced	GF reinforced	GF reinforced	GF30% reinforced	GF30% reinforced	GF55% reinforced
			CTI/PLC:0	Standard		Standard, CTI/PLC:0	Standard	Standard	Low warpage	High rigidity, Better surface appearance
Density	g/cm^3	ISO 1183	1.45	1.49	1.57	1.70	1.76	1.53	1.46	1.79
Tensile strength	MPa	ISO 527-1,2	80	90	100	77	87	135	133	165
Strain at break	%	ISO 527-1,2	2.8	2.3	1.7	1.6	0.9	1.9	1.9	1.5
Flexural strength	MPa	ISO 178	130	140	147	120	139	218	178	265
Flexural modulus	MPa	ISO 178	6,400	7,600	10,100	8,350	11,000	9,340	9,000	18,200
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	5.0	5.0	7.0	5.8	5.2	10	8.0	10
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	207	210	214	205	208	213	197	214
Coefficient of linear thermal expansion (23～55°C) Flow direction	×10^{-5}/℃	Our standard	4	3	2	3	2	—	—	—
Coefficient of linear thermal expansion (23～55°C) Transverse direction	×10^{-5}/℃	Our standard	8	8	7	6	7	—	—	—
Electric strength (3mmt)	kV/mm	IEC 60243-1	19	20	22	22	17	—	—	—
Volume resistivity	Ω・cm	IEC 60093	—	—	3×10^{16}	—	—	—	—	—
Surface resistivity	Ω	IEC 60093	—	—	4×10^{16}	—	—	—	—	—
Tracking resistance (CTI)	V	IEC 60112	600	500	600	600	325	—	—	—
Flammability		UL94	V-0	V-0	V-0	V-0	V-0	—	—	HB
The yellow card File No. issued by UL	—	—	E213445	E213445	E213445	E213445	E213445	—	—	E213445

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DURANEX® PBT Grade Line Up Table

Item	Unit	Test method	Low warpage, Slow burning, Standard				Low warpage, Flame retardant, Standard				
			7307	7407	7400W	6300B	HN7315	HN7330	750AM	7195W	7390W
			GF reinforced	GF reinforced	GF reinforced	GB30% filled	GF15% reinforced	GF30% reinforced	GF30% reinforced	GF reinforced	GF reinforced
			Super low warpage			Anisotropy improved	Standard		Hydrolysis resistant	Super low warpage	
Density	g/cm^3	ISO 1183	1.47	1.57	1.63	1.53	1.52	1.64	1.60	1.56	1.65
Tensile strength	MPa	ISO 527-1,2	106	117	94	55	100	132	135	86	103
Strain at break	%	ISO 527-1,2	2.8	2.5	2.2	5.0	2.0	1.9	1.6	2.8	2.0
Flexural strength	MPa	ISO 178	168	180	151	91	150	196	179	128	166
Flexural modulus	MPa	ISO 178	6,500	9,500	9,500	3,900	6,100	9,880	9,900	6,130	9,470
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	8.0	8.8	4.1	2	4.2	8.1	6.5	3.9	5.0
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	195	200	200	110	192	200	199	205	210
Coefficient of linear thermal expansion (23～55° C) Flow direction	×10^{-5}/℃	Our standard	3	2	3	9	4	2	—	5	3
Coefficient of linear thermal expansion (23～55° C) Transverse direction	×10^{-5}/℃	Our standard	6	5	6	9	8	7	—	7	6
Electric strength (3mmt)	kV/mm	IEC 60243-1	24	26	28	20	18	—	—	24	25
Volume resistivity	Ω・cm	IEC 60093	—	3×10^{15}	2×10^{15}	8×10^{15}	—	—	—	—	5×10^{16}
Surface resistivity	Ω	IEC 60093	—	4×10^{17}	2×10^{15}	5×10^{16}	—	—	—	—	3×10^{16}
Tracking resistance (CTI)	V	IEC 60112	—	325	325	300	—	—	—	—	275
Flammability		UL94	HB	HB	HB	HB	V-0	V-0	V-0	V-0	V-0
The yellow card File No. issued by UL	—	—	E213445	E213445	E213445	E213445	E213445	E213445	E213445	E213445	E213445

(＊1) Nominal strain at break

Item	Unit	Test method	Low warpage, SA series					Low warpage, LD series	
			304SA	361SA	701SA	751SA	652SA	750LD	733LD
			GF reinforced	GF reinforced	GF reinforced	GF reinforced	Mineral reinforced	GF30% reinforced	GF30% reinforced
			Low density, High sliding					Standard	Hydrolysis resistant
Density	g/cm^3	ISO 1183	1.28	1.43	1.43	1.56	1.45	1.60	1.46
Tensile strength	MPa	ISO 527-1,2	96	90	96	99	51	135	139
Strain at break	%	ISO 527-1,2	2.3	2.1	2.3	1.8	3.3	1.8	2.0
Flexural strength	MPa	ISO 178	139	129	140	149	95	206	180
Flexural modulus	MPa	ISO 178	5,310	5,700	7,000	8,680	5,500	10,100	9,000
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	6.0	6.0	6.0	4.6	2.9	7.9	7.6
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	120	125	180	190	110	205	195
Coefficient of linear thermal expansion (23～55° C) Flow direction	×10^{-5}/℃	Our standard	4	4	3	3	8	2	2
Coefficient of linear thermal expansion (23～55° C) Transverse direction	×10^{-5}/℃	Our standard	8	8	6	6	8	7	7
Electric strength (3mmt)	kV/mm	IEC 60243-1	24	20	22	19	—	18	26
Volume resistivity	Ω・cm	IEC 60093	4×10^{16}	2×10^{16}	1×10^{16}	7×10^{16}	—	4×10^{16}	4×10^{16}
Surface resistivity	Ω	IEC 60093	8×10^{15}	1×10^{17}	1×10^{17}	9×10^{16}	—	6×10^{16}	2×10^{17}
Tracking resistance (CTI)	V	IEC 60112	—	—	—	275	—	225	—
Flammability		UL94	HB	V-0	HB	V-0	V-1	V-0	HB
The yellow card File No. issued by UL	—	—	E213445	E213445	E213445	E213445	E213445	E213445	E213445

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DURANEX® PBT Grade Line Up Table

Item	Unit	Test method	Better surface appearance, Higher gloss, Slow burning			Better surface appearance, Higher gloss, Flame retardant			Resin adhesion improved for multiple injection molding	
			3106	3306	306MS	CN5315	CN5330	756HA	303RA	353RA
			GF15% reinforced	GF30% reinforced	GF50% rainforced	GF15% reinforced	GF30% reinforced	GF reinforced	GF30% reinforced	GF30% reinforced
			Standard		High rigidity	Standard		Low warpage	Standard	Hydrolysis resistant
Density	g/cm^3	ISO 1183	1.42	1.54	1.75	1.50	1.65	1.54	1.53	1.68
Tensile strength	MPa	ISO 527-1,2	94	140	160	103	138	87	153	143
Strain at break	%	ISO 527-1,2	1.9	2.2	1.6	2.3	1.8	3.0	2.8	2.1
Flexural strength	MPa	ISO 178	158	210	240	166	212	133	230	221
Flexural modulus	MPa	ISO 178	5,660	9,100	17,000	6,900	9,940	5,350	8,700	10,330
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	5.4	8.1	7.1	4.9	8.0	4.3	11.4	10
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	204	210	206	—	205	180	197	197
Coefficient of linear thermal expansion (23~55° C) Flow direction	×10^{-5}/℃	Our standard	4	2	—	4	2	5	2	2
Coefficient of linear thermal expansion (23~55° C) Transverse direction	×10^{-5}/℃	Our standard	8	7	—	8	7	8	9	7
Electric strength (3mmt)	kV/mm	IEC 60243-1	—	23	—	20	21	18	24	20
Volume resistivity	Ω・cm	IEC 60093	—	—	—	—	—	—	2×10^{16}	1×10^{16}
Surface resistivity	Ω	IEC 60093	—	—	—	—	—	—	2×10^{16}	5×10^{16}
Tracking resistance (CTI)	V	IEC 60112	—	350	—	—	—	—	350	—
Flammability		UL94	HB	HB	—	V-0	V-0	V-0	HB	V-0
The yellow card File No. issued by UL	—	—	E213445	E213445	—	E213445	E213445	E213445	E213445	E213445

(＊1) Nominal strain at break

Item	Unit	Test method	Hydrolysis resistant		Hydrolysis resistant, Heat shock resistant		Alkali resistance improved	Higher impact resistant	
			330HR	522HR	531HS	552HS	532AR	H7500	457EV
			GF30% reinforced	GF20% reinforced	GF30% reinforced	GF30% reinforced	GF30% reinforced	Unfilled	Unfilled
			Standard	Higher comparative tracking index	Standard		Hydrolysis resistant	Standard	Flame retardant, Higher comparative tracking index
Density	g/cm^3	ISO 1183	1.53	1.39	1.47	1.59	1.46	1.23	1.37
Tensile strength	MPa	ISO 527-1,2	149	98	118	92	110	56	46
Strain at break	%	ISO 527-1,2	2.6	4.0	2.7	1.9	3.0	65 (＊1)	13 (＊1)
Flexural strength	MPa	ISO 178	230	145	187	132	170	83	73
Flexural modulus	MPa	ISO 178	9,100	5,200	8,100	8,100	8,000	2,160	1,970
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	11	13.5	10.8	7.8	15	50	21
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	209	200	208	201	202	112	75
Coefficient of linear thermal expansion (23~55° C) Flow direction	×10^{-5}/℃	Our standard	2	3	2	—	—	10	9
Coefficient of linear thermal expansion (23~55° C) Transverse direction	×10^{-5}/℃	Our standard	9	9	9	—	—	10	10
Electric strength (3mmt)	kV/mm	IEC 60243-1	26	—	16	—	—	—	20
Volume resistivity	Ω・cm	IEC 60093	2×10^{16}	—	1×10^{16}	—	—	—	5×10^{14}
Surface resistivity	Ω	IEC 60093	3×10^{15}	—	—	—	—	—	—
Tracking resistance (CTI)	V	IEC 60112	—	—	—	—	—	—	600
Flammability		UL94	HB	HB	HB	V-0	HB	—	V-0
The yellow card File No. issued by UL	—	—	E213445	E213445	E213445	E213445	E213445	—	E213445

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Item	Unit	Test method	Low wear			Low oligomer content, Slow burning	
			2002K	209AW	7400F	330LC	340LC
			Unfilled	Unfilled	GF30% reinforced	GF30% reinforced	GF40% reinforced
			Standard			Standard	
Density	g/cm^3	ISO 1183	1.36	1.45	1.61	1.53	1.64
Tensile strength	MPa	ISO 527-1,2	57	52	131	141	157
Strain at break	%	ISO 527-1,2	12 (＊1)	5.0	2.3	3.2	2.5
Flexural strength	MPa	ISO 178	95	82	202	215	242
Flexural modulus	MPa	ISO 178	3,100	2,780	8,970	8,420	10,960
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	3.2	3.5	10.2	10.7	12
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	80	73	216	208	209
Coefficient of linear thermal expansion (23～55° C) Flow direction	×10^{-5}/℃	Our standard	9	10	2	2	1
Coefficient of linear thermal expansion (23～55° C) Transverse direction	×10^{-5}/℃	Our standard	9	10	9	9	8
Electric strength (3mmt)	kV/mm	IEC 60243-1	17	18	21	—	25
Volume resistivity	Ω・cm	IEC 60093	—	4×10^{16}	3×10^{16}	—	—
Surface resistivity	Ω	IEC 60093	—	8×10^{15}	1×10^{17}	—	—
Tracking resistance (CTI)	V	IEC 60112	—	—	425	—	—
Flammability		UL94	HB	V-0	HB	HB	HB
The yellow card File No. issued by UL	—	—	E213445	E213445	E213445	E213445	E213445

(＊1) Nominal strain at break

Item	Unit	Test method	Film, Extrusion molding		For Laser Welding
			500FP	700FP	330LW
			Unfilled	Unfilled	GF30% rainforced
			Standard	High viscosity	High transmissibility, Low warpage
Density	g/cm^3	ISO 1183	1.31	1.31	1.48
Tensile strength	MPa	ISO 527-1,2	58	53	149
Strain at break	%	ISO 527-1,2	80 (＊1)	108 (＊1)	2.6
Flexural strength	MPa	ISO 178	—	—	211
Flexural modulus	MPa	ISO 178	2,440	2,440	8,840
Charpy notched impact strength	kJ/m^2	ISO 179/1eA	2.7	3.9	10.8
Temperature of deflection under load (1.8MPa)	℃	ISO 75-1,2	66	59	194
Coefficient of linear thermal expansion (23～55° C) Flow direction	×10^{-5}/℃	Our standard	—	—	2
Coefficient of linear thermal expansion (23～55° C) Transverse direction	×10^{-5}/℃	Our standard	—	—	6
Electric strength (3mmt)	kV/mm	IEC 60243-1	—	—	—
Volume resistivity	Ω・cm	IEC 60093	—	—	—
Surface resistivity	Ω	IEC 60093	—	—	—
Tracking resistance (CTI)	V	IEC 60112	—	—	—
Flammability		UL94	HB	—	—
The yellow card File No. issued by UL	—	—	E213445	—	—

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Property	Characteristic	Grade	UL94
Slow burning, Standard	Unfilled, Standard	201AC	—
	Unfilled, High flow	2000	HB
	Unfilled, Toughness	2002	HB
	GF15% reinforced, Standard	3105	HB
	GF20% reinforced, Standard	3200	HB
	GF30% reinforced, Standard	3300	HB
	GF40% reinforced, Standard	3400	HB
	GF45% reinforced, Standard	3405	HB
	GF7.5% reinforced, Toughness	3100H	HB
	GF15% reinforced, Toughness	3105H	HB
	GF30% reinforced, Toughness	3300H	—
Flame retardant, Standard, UL approved regrind 50% inclusive	GF15% reinforced, New standard	GFR315	V-0
	GF20% reinforced, New standard	GFR320	V-0
	GF30% reinforced, New standard	GFR330	V-0
	Unfilled, Standard	CN7000	V-0
	GF10% reinforced, Standard	CN7010	V-0
	GF15% reinforced, Standard	CN7015	V-0
	GF30% reinforced, Standard	CN7030	V-0
Flame retardant, Low gas generation, Low contact contamination, UL approved regrind 50% inclusive	Unfilled, Standard	CRN7000GP	V-0
	GF15% reinforced, Standard	CRN7015GP	V-0
	GF30% reinforced, Standard	CRN7030GP	V-0
Halogen-free flame retardant system, Higher comparative tracking index	Unfilled, Standard	201NF	V-0
	GF10% reinforced, Standard	310NF	V-0
	GF15% reinforced, Standard	315NF	V-0
	GF15% reinforced, CTI/PLC: 0	315NFK	V-0
	GF20% reinforced, Standard	320NF	V-0
	GF30% reinforced, Standard	330NF	V-0
Flame retardant, Higher comparative tracking index	GF reinforced, Standard, CTI/PLC: 0	CTN7133	V-0
Flame retardant, Excellent glowwire property	GF reinforced, Standard	330GW	V-0
Super high flow, Slow burning	GF30% reinforced, Standard	SF3300	—
	GF30% reinforced, Low warpage	SF733LD	—
	GF55% reinforced, High rigidity, Better surface appearance	SF755	HB
Low warpage, Slow burning, Standard	GF reinforced, Super low warpage	7307	HB
		7407	HB
		7400W	HB
	GB30% filled, Anisotropy improved	6300B	HB
Low warpage, Flame retardant, Standard	GF15% reinforced, Standard	HN7315	V-0
	GF30% reinforced, Standard	HN7330	V-0
	GF30% reinforced, Hydrolysis resistant	750AM	V-0
	GF reinforced, Super low warpage	7195W	V-0
		7390W	V-0
Low warpage, SA series	GF reinforced, Low density, High sliding	304SA	HB
		361SA	V-0
		701SA	HB
		751SA	V-0
	Mineral reinforced, Low density, High sliding	652SA	V-1
Low warpage, LD series	GF30% reinforced, Standard	750LD	V-0
	GF30% reinforced, Hydrolysis resistant	733LD	HB
Better surface appearance, Higher gloss, Slow burning	GF15% reinforced, Standard	3106	HB
	GF30% reinforced, Standard	3306	HB
	GF50% rainforced, High rigidity	306MS	—
Better surface appearance, Higher gloss, Flame retardant	GF15% reinforced, Standard	CN5315	V-0
	GF30% reinforced, Standard	CN5330	V-0
	GF reinforced, Low warpage	756HA	V-0
Resin adhesion improved for multiple injection molding	GF30% reinforced, Standard	303RA	HB
	GF30% reinforced, Hydrolysis resistant	353RA	V-0
Hydrolysis resistant	GF30% reinforced	330HR	HB
	GF20% reinforced, Higher comparative tracking index	522HR	HB
Hydrolysis resistant, Heat shock resistant	GF30% reinforced	531HS	HB
	GF30% reinforced, Standard	552HS	V-0
Alkali resistance improved	GF30% reinforced, Hydrolysis resistant	532AR	HB
Higher impact resistant	Unfilled, Standard	H7500	—
	Unfilled, Flame retardant, Higher comparative tracking index	457EV	V-0
Low wear	Unfilled, Standard	2002K	HB
		209AW	V-0
	GF30% reinforced, Standard	7400F	HB
Low oligomer content, Slow burning	GF30% reinforced, Standard	330LC	HB
	GF40% reinforced, Standard	340LC	HB
Film, Extrusion molding	Standard	500FP	HB
	High viscosity	700FP	—
For Laser Welding	GF30% rainforced, High transmissibility, Low warpage	330LW	—

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NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under conditions prescribed by applicable standards and test methods.
- This brochure has been prepared based on our own experiences and laboratory test data, and therefore all data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application.
- It is the users' responsibility to investigate patent rights, service life and potentiality of applications introduced in this brochure.
  Materials we supply are not intended for the implant applications in the medical and dental fields, and therefore are not recommended for such uses.
- For all works done properly, it is advised to refer to appropriate technical catalogs for specific material processing.
- For safe handling of materials we supply, it is advised to refer to the Safety Data Sheet **"SDS"** of the proper material.
- This brochure is edited based on reference literature, information and data available to us at the time of creation. The contents of this brochure are subject to change without notice upon achievement of new data.
- Please contact our office for any questions about products we supply, descriptive literatures or any description in this brochure.

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