テナック（ホモポリマー・スタンダード）ASTM物性値一覧

				TENAC™													
				High Viscosity		High-Durability High Viscosity	High-Durability Medium Viscosity	Medium Viscosity			Impact-Resistant Soft	Medium Viscosity High-Cycle	High Flowability High-Cycle		High Flowability	Super High Flowability
		Test method	Units	2010	3010	MG210	4050	4010	4060	5010	4012	5050	7050	7054	7010	9054
Mechanical	Specific gravity	ASTMD792	–	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
	Water absorption（23℃ 50% RH 24HR）	ASTMD570	%	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tensile strength	ASTMD638	MPa	75	69	79	73	70	69	72	64	72	75	75	72	73
	Tensile elongation at break	ASTMD638	%	55	50	40	35	45	45	30	45	28	20	15	20	12
	Flexural strength	ASTMD790	MPa	97	96	108	105	103	100	107	92	108	111	113	108	112
	Flexural modulus	ASTMD790	GPa	2.72	2.70	3.04	3.04	2.90	2.80	3.04	2.60	3.06	3.20	3.25	3.10	3.30
	Izod impact strength (Notched)	ASTMD256	J/m	127	118	78	90	85	78	78	92	68	56	50	61	37
	Rockwell hardness (Scale M)	ASTMD785	–	94	94	94	94	94	94	94	85	94	94	94	94	94
	Rockwell hardness (Scale R)	ASTMD785	–	120	120	120	120	120	120	120	120	120	120	120	120	120
	Taber abration	ASTMD1044	mg	13	13	13	13	13	13	13	–	13	13	13	13	13
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	10	10	10	10	10	10	10	10	10	10	10	10	10
	Temperature of distortion under load（1.82MPa）	ASTMD648	℃	130	133	136	136	136	136	136	130	136	136	136	136	136
	Temperature of distortion under load（0.46MPa）	ASTMD648	℃	172	172	172	172	172	172	172	172	172	172	172	172	172
	Thermal conductivity	–	W/(m･K)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	–	0.23	0.23	0.23	0.23	0.23
	Specific heat	–	KJ/Kg･℃	1.465	1.465	1.465	1.465	1.465	1.465	1.465	–	1.465	1.465	1.465	1.465	1.465
Flammability	UL class	UL-94	–	HB	HB	–	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
	Oxygen index	ASTMD2863	%	–	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Relative permittivity（23℃ 50% RH 60Hz）	ASTMD150	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Relative permittivity（23℃ 50% RH 106Hz）	ASTMD150	–	3.8	3.8	3.8	3.8	3.8	3.8	3.8	–	3.8	–	3.8	3.8	3.8
	Dissipation factor（23℃ 50% RH 60Hz）	ASTMD150	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Dissipation factor（23℃ 50% RH 106Hz）	ASTMD150	–	0.007	0.007	0.007	0.007	0.007	0.007	0.007	–	0.007	–	0.007	0.007	0.007
	Volume resistivity（23℃ 50% RH）	ASTMD257	Ω･cm	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	–	10^{15}～10^{16}	–	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}
	Surface resistivity（23℃ 50% RH）	ASTMD257	Ω	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	–	10^{16}～10^{17}	–	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}
	Dielectric strength	ASTMD149	KV/mm	18	18	18	18	18	18	18	–	18	–	18	18	18
	Arc resistance	ASTMD495	sec	250	250	250	250	250	250	250	–	250	–	250	250	250
Mold shrinkae (para/perp to flow)		Asahi method	%	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.7～2.1	1.7～2.1	1.7～2.1	1.8～2.2	1.7～2.1
Refractive index		–	–													
Luminous transmittance		–	–													

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テナック(コポリマー・スタンダード) ASTM物性値一覧

				TENAC™-C													
				High Viscosity	Medium Viscosity		High Flowability		High Flowability High-Cycle	HC Series				Low abrasional attacking		High-Lubricity soft	
		Test method	Units	3510	4520	5520	7520	8520	7554	HC350	HC450	HC550	HC750	HC460	HC760	SG454	
Mechanical	Specific gravity	ASTMD792	−	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.10	
	Water absorption(23℃ 50% RH 24HR)	ASTMD570	%	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	
	Tensile strength	ASTMD638	MPa	62	63	63	64	64	63	65	66	66	68	64	66	32	
	Tensile elongation at break	ASTMD638	%	40	35	35	32	28	25	40	35	33	30	40	30	90	
	Flexural strength	ASTMD790	MPa	88	90	91	93	95	91	93	95	96	100	88	93	51	
	Flexural modulus	ASTMD790	GPa	2.45	2.55	2.60	2.60	2.68	2.57	2.55	2.68	2.72	2.85	2.60	2.80	1.25	
	Izod impact strength (Notched)	ASTMD256	J/m	96	77	61	61	50	33	96	83	70	59	83	69	50	
	Rockwell hardness (Scale M)	ASTMD785	−	78	80	80	80	80	80	90	90	90	90	88	88	−	
	Rockwell hardness (Scale R)	ASTMD785	−	−	115	115	115	115	115	117	117	117	117	117	117	−	
	Taber abration	ASTMD1044	mg	14	14	14	14	14	14	—	−	−	−	−	−	−	
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	10	10	10	10	10	10	—	−	−	−	10	10	10	
	Temperature of distortion under load(1.82MPa)	ASTMD648	℃	110	110	110	110	110	110	124	124	124	124	124	124	74	
	Temperature of distortion under load(0.46MPa)	ASTMD648	℃	158	158	158	158	158	158	163	163	163	163	163	163	153	
	Thermal conductivity	−	W/(m·K)	0.23	0.23	0.23	0.23	0.23	−	—	0.23	0.23	0.23	0.23	0.23	−	
	Specific heat	−	KJ/Kg·℃	1.465	1.465	1.465	1.465	1.465	−	—	1.465	1.465	1.465	1.465	1.465	−	
Flammability	UL class	UL-94	−	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	
	Oxygen index	ASTMD2863	%	−	−	−	−	−	−	−	−	−	−	−	−	−	
Electrical	Relative permittivity(23℃ 50% RH 60Hz)	ASTMD150	−	−	−	−	−	−	−	−	−	−	−	−	−	−	
	Relative permittivity(23℃ 50% RH 106Hz)	ASTMD150	−	3.9	3.9	3.9	3.9	3.9	−	−	−	−	−	−	−	−	
	Dissipation factor(23℃ 50% RH 60Hz)	ASTMD150	−	−	−	−	−	−	−	−	−	−	−	−	−	−	
	Dissipation factor(23℃ 50% RH 106Hz)	ASTMD150	−	0.008	0.008	0.008	0.008	0.008	−	−	−	−	−	−	−	−	
	Volume resistivity(23℃ 50% RH)	ASTMD257	Ω·cm	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	−	−	−	
	Surface resistivity(23℃ 50% RH)	ASTMD257	Ω	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	−	−	−	
	Dielectric strength	ASTMD149	KV/mm	19	19	19	19	19	19	−	−	−	−	−	−	−	
	Arc resistance	ASTMD495	sec	250	250	250	250	250	250	−	−	−	−	−	−	−	
Mold shrinkae (para/perp to flow)		Asahi method	%	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	
Refractive index		−	−														
Luminous transmittance		−	−														

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テナック（低VOC）ASTM物性値一覧

				TENAC™ Low VOC		TENAC™-C Low VOC								
				High Viscosity	Medium Viscosity	Standard grades		HC Series	High Viscosity Weather-resistant	Medium Viscosity Weather-resistant		High-Luricity	Low abrasional attacking	High Flowability High Stiffiness
		Test method	Units	Z3010	Z4060	Z3510	Z4520	ZH450	Z3513	Z4513	Z4563	ZLV40	ZH760	ZLD75
Mechanical	Specific gravity	ASTMD792	−	1.42	1.42	1.41	1.41	1.41	1.41	1.41	1.41	1.39	1.41	1.52
	Water absorption(23℃ 50% RH 24HR)	ASTMD570	%	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tensile strength	ASTMD638	MPa	69	69	62	63	66	62	62	62	56	66	51
	Tensile elongation at break	ASTMD638	%	50	45	40	35	35	35	35	42	25	30	8
	Flexural strength	ASTMD790	MPa	96	100	88	90	95	88	88	88	89	93	86
	Flexural modulus	ASTMD790	GPa	2.70	2.80	2.45	2.55	2.68	2.45	2.50	2.45	2.60	2.80	3.39
	Izod impact strength (Notched)	ASTMD256	J/m	118	78	96	77	83	96	60	64	56	69	32
	Rockwell hardness (Scale M)	ASTMD785	−	94	94	78	80	90	78	80	80	86	88	70
	Rockwell hardness (Scale R)	ASTMD785	−	120	120	−	115	117	−	115	115	117	117	115
	Taber abration	ASTMD1044	mg	13	13	14	14	−	14	14	14	−	−	−
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	10	10	10	10	−	10	10	10	10	10	8
	Temperature of distortion under load(1.82MPa)	ASTMD648	℃	133	136	110	110	124	110	110	110	100	124	130
	Temperature of distortion under load(0.46MPa)	ASTMD648	℃	172	172	158	158	163	158	158	158	157	163	159
	Thermal conductivity	−	W/(m･K)	0.23	0.23	0.23	0.23	0.23	−	−	−	−	0.23	−
	Specific heat	−	KJ/Kg･℃	1.465	1.465	1.465	1.465	1.465	−	−	−	−	1.465	−
Flammability	UL class	UL-94	−	HB	HB	HB	HB	HB	−	−	−	HB	HB	HB
	Oxygen index	ASTMD2863	%	−	−	−	−	−	−	−	−	−	−	−
Electrical	Relative permittivity(23℃ 50% RH 60Hz)	ASTMD150	−	−	−	−	−	−	−	−	−	−	−	−
	Relative permittivity(23℃ 50% RH 106Hz)	ASTMD150	−	3.8	3.8	3.9	3.9	−	−	−	−	−	−	−
	Dissipation factor(23℃ 50% RH 60Hz)	ASTMD150	−	−	−	−	−	−	−	−	−	−	−	−
	Dissipation factor(23℃ 50% RH 106Hz)	ASTMD150	−	0.007	0.007	0.008	0.008	−	−	−	−	−	−	−
	Volume resistivity(23℃ 50% RH)	ASTMD257	Ω･cm	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	−	−	−
	Surface resistivity(23℃ 50% RH)	ASTMD257	Ω	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	−	−	−
	Dielectric strength	ASTMD149	KV/mm	18	18	19	19	−	19	19	19	−	−	−
	Arc resistance	ASTMD495	sec	250	250	250	250	−	250	250	250	−	−	−
Mold shrinkae (para/perp to flow)		Asahi method	%	1.8～2.2	1.8～2.2	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0	1.4～1.6
Refractive index		−	−											
Luminous transmittance		−	−											

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テナック（耐候グレード）ASTM物性値一覧

				TENAC™ Weather-resistant				TENAC™-C Weather-resistant			
				High Viscosity		Medium Viscosity		High Viscosity	Medium Viscosity		High Flowability
		Test method	Units	2013A	3013A	4013A	5013A	3513	4513	4563	7513
Mechanical	Specific gravity	ASTMD792	−	1.42	1.42	1.42	1.42	1.41	1.41	1.41	1.41
	Water absorption（23℃ 50% RH 24HR）	ASTMD570	%	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tensile strength	ASTMD638	MPa	65	66	67	69	62	62	62	64
	Tensile elongation at break	ASTMD638	%	55	50	45	30	35	35	42	30
	Flexural strength	ASTMD790	MPa	92	93	98	101	88	88	88	93
	Flexural modulus	ASTMD790	GPa	2.60	2.70	2.90	2.95	2.45	2.50	2.45	2.60
	Izod impact strength (Notched)	ASTMD256	J/m	128	118	85	69	96	60	64	55
	Rockwell hardness (Scale M)	ASTMD785	−	94	94	94	94	78	80	80	80
	Rockwell hardness (Scale R)	ASTMD785	−	120	120	120	120	−	115	115	115
	Taber abration	ASTMD1044	mg	13	13	13	13	14	14	14	14
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	10	10	10	10	10	10	10	10
	Temperature of distortion under load（1.82MPa）	ASTMD648	℃	136	136	136	136	110	110	110	110
	Temperature of distortion under load（0.46MPa）	ASTMD648	℃	172	172	172	172	158	158	158	158
	Thermal conductivity	−	W/(m･K)	−	−	−	−	−	−	−	−
	Specific heat	−	KJ/Kg･℃	−	−	−	−	−	−	−	−
Flammability	UL class	UL-94	−	−	−	−	−	−	−	−	−
	Oxygen index	ASTMD2863	%	−	−	−	−	−	−	−	−
Electrical	Relative permittivity（23℃ 50% RH 60Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Relative permittivity（23℃ 50% RH 106Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Dissipation factor（23℃ 50% RH 60Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Dissipation factor（23℃ 50% RH 106Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Volume resistivity（23℃ 50% RH）	ASTMD257	Ω･cm	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}	10^{15}～10^{16}
	Surface resistivity（23℃ 50% RH）	ASTMD257	Ω	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}	10^{16}～10^{17}
	Dielectric strength	ASTMD149	KV/mm	18	18	18	18	19	19	19	19
	Arc resistance	ASTMD495	sec	250	250	250	250	250	250	250	250
Mold shrinkae (para/perp to flow)		Asahi method	%	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.6～2.0	1.6～2.0	1.6～2.0	1.6～2.0
Refractive index		−	−								
Luminous transmittance		−	−								

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テナック（強化グレード）ASTM物性値一覧

				TENAC™			TENAC™-C				
				Glass-Fiber Reinforced			Carbon-Fiber Reinforced		Glass-Fiber Reinforced		Mineral Reinforced
				Medium Viscosity		High Flowability	Medium Viscosity		Medium Viscosity	High Flowability	High Flowability
		Test method	Units	GA510	GA520	GN705	CF452	CF454	GN455	GN755	MT754
Mechanical	Specific gravity	ASTMD792	−	1.50	1.56	1.56	1.43	1.46	1.59	1.59	1.58
	Water absorption（23℃ 50% RH 24HR）	ASTMD570	%	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	Tensile strength	ASTMD638	MPa	63	53	106	101	118	121	120	60
	Tensile elongation at break	ASTMD638	%	15	15	6	5	5	8	8	7
	Flexural strength	ASTMD790	MPa	96	100	173	155	185	188	188	108
	Flexural modulus	ASTMD790	GPa	3.00	3.93	8.20	7.00	12.2	7.90	7.94	5.00
	Izod impact strength (Notched)	ASTMD256	J/m	33	33	66	33	39	62	69	39
	Rockwell hardness (Scale M)	ASTMD785	−	92	90	90	90	104	79	79	98
	Rockwell hardness (Scale R)	ASTMD785	−	120	120	120	−	−	−	−	−
	Taber abration	ASTMD1044	mg	18	23	23	−	−	−	−	−
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	8	7	4/9	6/9	4/9	4/9	4/9	6
	Temperature of distortion under load（1.82MPa）	ASTMD648	℃	140	152	170	140	163	163	140	150
	Temperature of distortion under load（0.46MPa）	ASTMD648	℃	172	174	174	162	166	166	162	163
	Thermal conductivity	−	W/(m･K)	−	−	−	−	−	−	−	−
	Specific heat	−	KJ/Kg･℃	−	−	−	−	−	−	−	−
Flammability	UL class	UL-94	−	−	HB	HB	HB	HB	HB	HB	HB
	Oxygen index	ASTMD2863	%	−	−	−	−	−	−	−	−
Electrical	Relative permittivity（23℃ 50% RH 60Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Relative permittivity（23℃ 50% RH 106Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Dissipation factor（23℃ 50% RH 60Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Dissipation factor（23℃ 50% RH 106Hz）	ASTMD150	−	−	−	−	−	−	−	−	−
	Volume resistivity（23℃ 50% RH）	ASTMD257	Ω･cm	−	−	−	−	−	−	−	−
	Surface resistivity（23℃ 50% RH）	ASTMD257	Ω	−	−	−	−	−	−	−	−
	Dielectric strength	ASTMD149	KV/mm	−	−	−	−	−	−	−	−
	Arc resistance	ASTMD495	sec	−	−	−	−	−	−	−	−
Mold shrinkae (para/perp to flow)		Asahi method	%	1.5～1.8 /1.2～1.5	1.5～1.8 /1.0～1.3	0.4～0.6 /1.0～1.3	0.3～0.6 /0.8～1.2	0.1～0.2 /0.6～0.8	0.4～0.6 /1.0～1.2	0.4～0.6 /1.0～1.2	1.0～1.2
Refractive index		−	−								
Luminous transmittance		−	−								

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テナック（潤滑グレード）ASTM物性値一覧

				TENAC™ High-Luricity								TENAC™-C High-Luricity			
				High Viscosity	Medium Viscosity						High Flowability	High Viscosity	Medium Viscosity	High Flowability	High Flowability High Stiffness
		Test method	Units	LT802	LT804	LT805	LT200	FS410	LA543	LM511	LS701	LT350	LV450	LZ750	LD755
Mechanical	Specific gravity	ASTMD792	–	1.42	1.42	1.42	1.4	1.46	1.38	1.42	1.42	1.41	1.39	1.39	1.52
Mechanical	Water absorption（23℃ 50% RH 24HR）	ASTMD570	%	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Mechanical	Tensile strength	ASTMD638	MPa	67	67	67	62	66	62	65	64	56	56	60	51
Mechanical	Tensile elongation at break	ASTMD638	%	55	45	35	40	20	25	30	25	45	25	20	8
Mechanical	Flexural strength	ASTMD790	MPa	91	95	98	88	96	98	97	98	78	89	91	86
Mechanical	Flexural modulus	ASTMD790	GPa	2.56	2.80	2.88	2.60	2.73	2.70	2.90	3.10	2.35	2.60	2.80	3.39
Mechanical	Izod impact strength (Notched)	ASTMD256	J/m	123	85	71	53	41	65	63	49	78	56	35	32
Mechanical	Rockwell hardness (Scale M)	ASTMD785	–	92	92	92	80	94	81	–	94	–	86	86	70
Mechanical	Rockwell hardness (Scale R)	ASTMD785	–	120	120	120	120	–	120	–	120	–	117	117	115
Mechanical	Taber abration	ASTMD1044	mg	13	13	13	18	–	–	–	–	–	–	–	–
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	10	10	10	10	10	10	10	10	–	10	10	8
Thermal	Temperature of distortion under load（1.82MPa）	ASTMD648	℃	125	125	125	125	136	115	120	136	–	100	100	130
Thermal	Temperature of distortion under load（0.46MPa）	ASTMD648	℃	172	172	172	172	172	165	170	172	–	157	157	159
Thermal	Thermal conductivity	–	W/(m·K)	–	–	–	–	–	–	–	–	–	–	–	–
Thermal	Specific heat	–	KJ/Kg·℃	–	–	–	–	–	–	–	–	–	–	–	–
Flammability	UL class	UL-94	–	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
Flammability	Oxygen index	ASTMD2863	%	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Relative permittivity（23℃ 50% RH 60Hz）	ASTMD150	–	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Relative permittivity（23℃ 50% RH 106Hz）	ASTMD150	–	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Dissipation factor（23℃ 50% RH 60Hz）	ASTMD150	–	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Dissipation factor（23℃ 50% RH 106Hz）	ASTMD150	–	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Volume resistivity（23℃ 50% RH）	ASTMD257	Ω·cm	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Surface resistivity（23℃ 50% RH）	ASTMD257	Ω	–	–	–	–	–	–	–	–	–	–	–	–
Electrical	Dielectric strength	ASTMD149	KV/mm	18	18	18	18	–	–	–	–	–	–	–	–
Electrical	Arc resistance	ASTMD495	sec	250	250	250	250	–	–	–	–	–	–	–	–
Mold shrinkae (para/perp to flow)		Asahi method	%	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.8～2.2	1.6～2.0	1.6～2.0	1.6～2.0	1.4～1.6
Refractive index		–	–												
Luminous transmittance		–	–												

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For any intended use that may involve food contact, therefore, please consult with Asahi Kasei Corporation.
For safety in the handling and use of TENAC™, TENAC™-C, please refer to the relevant Material Safety Data Sheet issued by Asahi Kasei Corporation.

テナック導電 ASTM物性値一覧

				TENAC™-C	
				Electro Conductive	
		Test method	Units	TFC64	EF750
Mechanical	Specific gravity	ASTMD792	–	1.37	1.41
	Water absorption(23℃ 50% RH 24HR)	ASTMD570	%	0.2	0.2
	Tensile strength	ASTMD638	MPa	33	48
	Tensile elongation at break	ASTMD638	%	3	10
	Flexural strength	ASTMD790	MPa	63	78
	Flexural modulus	ASTMD790	GPa	2.01	2.45
	Izod impact strength (Notched)	ASTMD256	J/m	33	42
	Rockwell hardness (Scale M)	ASTMD785	–	–	80
	Rockwell hardness (Scale R)	ASTMD785	–	–	–
	Taber abration	ASTMD1044	mg	–	–
Thermal	Coefficient of linear thermal expantion	ASTMD696	$\times 10^{-5}$mm/mm/℃	–	10
	Temperature of distortion under load(1.82MPa)	ASTMD648	℃	123	120
	Temperature of distortion under load(0.46MPa)	ASTMD648	℃	160	162
	Thermal conductivity	–	W/(m･K)	–	–
	Specific heat	–	KJ/Kg･℃	–	–
Flammability	UL class	UL-94	–	HB	HB
	Oxygen index	ASTMD2863	%	–	–
Electrical	Relative permittivity(23℃ 50% RH 60Hz)	ASTMD150	–	–	–
	Relative permittivity(23℃ 50% RH 106Hz)	ASTMD150	–	–	–
	Dissipation factor(23℃ 50% RH 60Hz)	ASTMD150	–	–	–
	Dissipation factor(23℃ 50% RH 106Hz)	ASTMD150	–	–	–
	Volume resistivity(23℃ 50% RH)	ASTMD257	Ω･cm	(10^0～10^2)	(10^2～10^4)
	Surface resistivity(23℃ 50% RH)	ASTMD257	Ω	(10^0～10^2)	(10^2～10^4)
	Dielectric strength	ASTMD149	KV/mm	–	–
	Arc resistance	ASTMD495	sec	–	–
Mold shrinkae (para/perp to flow)		Asahi method	%	1.3～1.6	1.6～2.0
Refractive index		–	–		
Luminous transmittance		–	–		

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