

STYLAC(ABS\_General-purpose)\_Eng

BASIC PROPERTIES				ABS								
				General purpose								
				High impact ←			→ High stiffness			High flow		
Properties (under ISO 10350)	Standard	Conditions	Units	321	220	121	120	026	190	191	190F	191F
1. Rheological properties												
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	9	12	14	16	19	23	26	47	38
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	9	13	14	17	20	24	27	49	40
2. Mechanical properties												
Tensile stress at yield	ISO527-1	50mm/min	MPa	35	41	46	51	58	53	45	46	42
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	-	-	-	-	-	-	-
Flexural modulus	ISO178	2mm/min	MPa	1800	2150	2450	2700	2900	2600	2400	2250	2050
Flexural strength	ISO178	2mm/min	MPa	56	66	75	82	92	83	73	69	63
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	36	32	27	17	7	11	22	17	25
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-	-	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-	-	-	-	-	-
3. Thermal properties												
Vicat softening temperature	ISO306	Load:50N	°C	94	98	101	103	103	101	100	91	91
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	76	79	81	83	84	82	80	74	74
4. Other properties												
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.02	1.04	1.05	1.05	1.06	1.06	1.05	1.05	1.05
Rockwell hardness	ISO2039-2	R scale	-	89	103	109	111	116	113	109	-	-
	ISO2039-2	M scale	-	-	-	-	-	-	-	-	-	-
5. Properties under other standards												
Rockwell hardness(2.5mm)	ordinal	R scale	-	83	96	103	108	113	108	103	100	95
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-	-	-	-	-	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6
Surface resistance	ASTM D257	-	Ω	-	-	-	-	-	-	-	-	-
Volume resistance	original	-	Ω·cm	-	-	-	-	-	-	-	-	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-	-	-	-	-	-	-	-
UL class	UL94	-	-	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB
Relative temperature index	UL746A	-	°C	60	60	80	60	60	60	60	60	60
Ball pressure temperature (Registered number)	EMAC	-	°C	-	90 (B-1558)	90 (B-1558)	90 (B-1558)	90 (B-1558)	85 (B-1556)	85 (B-1556)	85 (B-1556)	85 (B-1556)

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STYLAC(ABS\_High-toughness)\_Eng

BASIC PROPERTIES				ABS					
				High toughness					
				High toughness ↔ High stiffness				Painting	
Properties (under ISO 10350)	Standard	Conditions	Units	IM30	IM20	IM15	IM10	ID31J	ID510
<b>1. Rheological properties</b>									
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	4	6	7	8	19	18
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	4	7	8	8	20	19
<b>2. Mechanical properties</b>									
Tensile stress at yield	ISO527-1	50mm/min	MPa	38	44	50	52	42	48
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	-	-	-	-
Flexural modulus	ISO178	2mm/min	MPa	1850	2150	2500	2600	2150	2400
Flexural strength	ISO178	2mm/min	MPa	59	66	80	83	67	76
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	42	38	33	29	32	18
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-	-	-
<b>3. Thermal properties</b>									
Vicat softening temperature	ISO306	Load:50N	°C	97	101	105	106	99	105
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	80	80	84	85	79	84
<b>4. Other properties</b>									
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.03	1.05	1.05	1.06	1.05	1.05
Rockwell hardness	ISO2039-2	R scale	-	-	-	-	-	-	-
	ISO2039-2	M scale	-	-	-	-	-	-	-
<b>5. Properties under other standards</b>									
Rockwell hardness(2.5mm)	original	R scale	-	87	100	104	106	97	104
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-	-	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6
Surface resistance	ASTM D257	-	Ω	-	-	-	-	-	-
Volume resistance	original	-	Ω · cm	-	-	-	-	-	-
Thermal conductivity	ASTM D 177	-	W/m · °C	-	-	-	-	-	-
UL class	UL94	-	-	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	-	-
Relative temperature index	UL746A	-	°C	60	60	60	60	-	-
Ball pressure temperature (Registered number)	EMAC	-	°C	90 (B-1558)	95 (B-1560)	95 (B-0634)	95 (B-1560)	-	-

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STYLAC(ABS\_Heat-resistant)\_Eng

BASIC PROPERTIES				ABS			
				Heat resistant			
				high	Extra high	Max.	Hith flow
Properties (under ISO 10350)	Standard	Conditions	Units	181	183	185	A3921
<b>1. Rheological properties</b>							
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	8	5	2	10
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	9	5	2	11
<b>2. Mechanical properties</b>							
Tensile stress at yield	ISO527-1	50mm/min	MPa	45	45	45	52
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	-	-
Flexural modulus	ISO178	2mm/min	MPa	2350	2350	2300	2750
Flexural strength	ISO178	2mm/min	MPa	74	75	76	82
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	22	19	15	9
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-
<b>3. Thermal properties</b>							
Vicat softening temperature	ISO306	Load:50N	°C	108	114	124	113
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	88	93	102	94
<b>4. Other properties</b>							
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.05	1.06	1.07	1.07
Rockwell hardness	ISO2039-2	R scale	-	-	-	-	-
	ISO2039-2	M scale	-	-	-	-	-
<b>5. Properties under other standards</b>							
Rockwell hardness(2.5mm)	original	R scale	-	103	104	103	110
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-	-
Mold shrinkage	ASTM D955	-	%	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7
Surface resistance	ASTM D257	-	Ω	-	-	-	-
Volume resistance	original	-	Ω · cm	-	-	-	-
Thermal conductivity	ASTM D 177	-	W/m · °C	-	-	-	-
UL class	UL94	-	-	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB
Relative temperature index	UL746A	-	°C	60	60	60	60
Ball pressure temperature (Registered number)	EMAC	-	°C	100 (B-1564)	105 (B-1534)	120 (B-1536)	105 (B-1534)

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BASIC PROPERTIES				ABS	
				GF-reinforced	
					Flame retardant
Properties (under ISO 10350)	Standard	Conditions	Units	R240A	VGB20
<b>1. Rheological properties</b>					
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	6	17
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	6	16
<b>2. Mechanical properties</b>					
Tensile stress at yield	ISO527-1	50mm/min	MPa	-	-
Tensile stress at yield	ISO527-1	5mm/min	MPa	105	78
Flexural modulus	ISO178	2mm/min	MPa	6600	5200
Flexural strength	ISO178	2mm/min	MPa	161	115
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	11	7
	ISO179	0°C	kJ/m <sup>2</sup>	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-
<b>3. Thermal properties</b>					
Vicat softening temperature	ISO306	Load:50N	°C	-	-
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	104	83
<b>4. Other properties</b>					
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.19	1.32
Rockwell hardness	ISO2039-2	R scale	-	-	-
	ISO2039-2	M scale	-	-	-
<b>5. Properties under other standards</b>					
Rockwell hardness(2.5mm)	original	R scale	-	-	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	3.3	3.3
Mold shrinkage	ASTM D955	-	%	0.2-0.35	0.3-0.4
Surface resistance	ASTM D257	-	Ω	-	-
Volume resistance	original	-	Ω·cm	-	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-
UL class	UL94	-	-	1.5mm HB	1.5mm HB
Relative temperature index	UL746A	-	°C	60	60
Ball pressure temperature (Registered number)	EMAC	-	°C	100 (B-1561)	-

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STYLAC(ABS\_Extrusion)\_Eng

BASIC PROPERTIES				ABS				
				Extrusion				
				Extrusion	High molding			Blow
Properties (under ISO 10350)	Standard	Conditions	Units	A4130	AE510	AE490	AE850	IB330
1. Rheological properties								
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	7	8	7	10	1
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	7	8	7	11	2
2. Mechanical properties								
Tensile stress at yield	ISO527-1	50mm/min	MPa	47	39	47	29	44
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	-	-	-
Flexural modulus	ISO178	2mm/min	MPa	2450	2750	3950	1450	2450
Flexural strength	ISO178	2mm/min	MPa	77	67	78	47	82
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	27	11	7	35	17
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-	-
3. Thermal properties								
Vicat softening temperature	ISO306	Load:50N	°C	102	99	103	89	113
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	82	80	88	74	93
4. Other properties								
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.05	1.18	1.16	1.01	1.06
Rockwell hardness	ISO2039-2	R scale	-	-	-	-	-	-
	ISO2039-2	M scale	-	-	-	-	-	-
5. Properties under other standards								
Rockwell hardness(2.5mm)	original	R scale	-	102	-	-	68	106
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	7-9	6-7	4-5	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	0.4-0.6	0.4-0.6	-	0.5-0.7
Surface resistance	ASTM D257	-	Ω	-	-	-	-	-
Volume resistance	original	-	Ω · cm	-	-	-	-	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-	-	-	-
UL class	UL94	-	-	-	-	-	-	-
Relative temperature index	UL746A	-	°C	-	-	-	-	-
Ball pressure temperature (Registered number)	EMAC	-	°C	-	-	-	-	-

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BASIC PROPERTIES				ABS			
				Long lasting antistatic / Electrically conductive			
				Long lasting antistatic		Electrically conductive	
Properties (under ISO 10350)	Standard	Conditions	Units	A100	IC39A	IC10N	IC24
<b>1. Rheological properties</b>							
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	37	84	2	12
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	38	73	1	11
<b>2. Mechanical properties</b>							
Tensile stress at yield	ISO527-1	50mm/min	MPa	44	54	-	79
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	133	-
Flexural modulus	ISO178	2mm/min	MPa	2100	2450	10000	2800
Flexural strength	ISO178	2mm/min	MPa	68	78	186	114
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	21	2	8	6
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-
<b>3. Thermal properties</b>							
Vicat softening temperature	ISO306	Load:50N	°C	92	98	110	106
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	75	81	100	101
<b>4. Other properties</b>							
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.07	1.09	1.12	1.08
Rockwell hardness	ISO2039-2	R scale	-	-	-	-	-
	ISO2039-2	M scale	-	-	-	-	-
<b>5. Properties under other standards</b>							
Rockwell hardness(2.5mm)	original	R scale	-	94	98	-	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-	-
Mold shrinkage	ASTM D955	-	%	-	-	0.1-0.2	0.2-0.3
Surface resistance	ASTM D257	-	Ω	-	-	4	E+4
Volume resistance	original	-	Ω · cm	-	-	5 × 10 <sup>-1</sup>	E+3
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-	0.26	-
UL class	UL94	-	-	-	-	1.5mm HB	1.5mm HB
Relative temperature index	UL746A	-	°C	-	-	60	-
Ball pressure temperature (Registered number)	EMAC	-	°C	-	-	-	-

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BASIC PROPERTIES				ABS		
				Chemical resistance		
				Super	↔	general
Properties (under ISO 10350)	Standard	Conditions	Units	IX700	IX600	IX220
<b>1. Rheological properties</b>						
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	6	7	15
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	6	7	16
<b>2. Mechanical properties</b>						
Tensile stress at yield	ISO527-1	50mm/min	MPa	41	40	48
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	-
Flexural modulus	ISO178	2mm/min	MPa	1900	1900	2350
Flexural strength	ISO178	2mm/min	MPa	66	56	74
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	34	40	36
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-
<b>3. Thermal properties</b>						
Vicat softening temperature	ISO306	Load:50N	°C	97	96	99
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	80	80	80
<b>4. Other properties</b>						
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.06	1.06	1.05
Rockwell hardness	ISO2039-2	R scale	-	-	-	-
	ISO2039-2	M scale	-	-	-	-
<b>5. Properties under other standards</b>						
Rockwell hardness(2.5mm)	original	R scale	-	91	94	103
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	0.4-0.6	0.4-0.6
Surface resistance	ASTM D257	-	Ω	-	-	-
Volume resistance	original	-	Ω · cm	-	-	-
Thermal conductivity	ASTM D 177	-	W/m · °C	-	-	-
UL class	UL94	-	-	-	-	-
Relative temperature index	UL746A	-	°C	-	-	-
Ball pressure temperature (Registered number)	EMAC	-	°C	90 (B-2428)	-	95 (B-2464)

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BASIC PROPERTIES				ABS	
				High light resistance	
Properties (under ISO 10350)	Standard	Conditions	Units	FW130	FW920
<b>1. Rheological properties</b>					
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	25	30
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	26	-
<b>2. Mechanical properties</b>					
Tensile stress at yield	ISO527-1	50mm/min	MPa	43	38
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-
Flexural modulus	ISO178	2mm/min	MPa	2000	2000
Flexural strength	ISO178	2mm/min	MPa	65	58
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	18	18
	ISO179	0°C	kJ/m <sup>2</sup>	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-
<b>3. Thermal properties</b>					
Vicat softening temperature	ISO306	Load:50N	°C	90	86
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	73	73
<b>4. Other properties</b>					
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.06	-
Rockwell hardness	ISO2039-2	R scale	-	-	-
	ISO2039-2	M scale	-	-	-
<b>5. Properties under other standards</b>					
Rockwell hardness(2.5mm)	original	R scale	-	93	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	-
Surface resistance	ASTM D257	-	Ω	-	-
Volume resistance	original	-	Ω · cm	-	-
Thermal conductivity	ASTM D 177	-	W/m · °C	-	-
UL class	UL94	-	-	-	-
Relative temperature index	UL746A	-	°C	-	-
Ball pressure temperature (Registered number)	EMAC	-	°C	-	-

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BASIC PROPERTIES				ABS		
				Flame Retardant		
				Halogen	Non-halogen	
Properties (under ISO 10350)	Standard	Conditions	Units	VA58	VA518	VN33H
<b>1. Rheological properties</b>						
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	25	58	81
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	25	58	80
<b>2. Mechanical properties</b>						
Tensile stress at yield	ISO527-1	50mm/min	MPa	47	42	50
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	-	-
Flexural modulus	ISO178	2mm/min	MPa	2550	2400	2800
Flexural strength	ISO178	2mm/min	MPa	79	71	81
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	11	9	14
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-
<b>3. Thermal properties</b>						
Vicat softening temperature	ISO306	Load:50N	°C	92	90	87
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	76	74	70
<b>4. Other properties</b>						
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.20	1.19	1.07
Rockwell hardness	ISO2039-2	R scale	-	-	-	-
	ISO2039-2	M scale	-	-	-	-
<b>5. Properties under other standards</b>						
Rockwell hardness(2.5mm)	original	R scale	-	-	-	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	0.4-0.6	0.4-0.6
Surface resistance	ASTM D257	-	Ω	-	-	-
Volume resistance	original	-	Ω · cm	-	-	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-	-
UL class	UL94	-	-	2.1mm V-0 2.5mm 5VA	1.5mm V-0 2.0mm 5VA	1.6mm V-2 3.2mm V-2
Relative temperature index	UL746A	-	°C	60	60	60
Ball pressure temperature (Registered number)	EMAC	-	°C	80 (B-2285)	-	85 (B-2411)

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BASIC PROPERTIES				AS						
				General purpose						
				General		Heat resistant		High clarity		
Properties (under ISO 10350)	Standard	Conditions	Units	767	T8701	769	789	783	T8707	CS747
<b>1. Rheological properties</b>										
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	12	23	30	27	9	30	12
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	13	25	31	29	10	32	13
<b>2. Mechanical properties</b>										
Tensile stress at yield	ISO527-1	50mm/min	MPa	-	-	-	-	-	-	-
Tensile stress at yield	ISO527-1	5mm/min	MPa	70	68	64	72	74	61	68
Flexural modulus	ISO178	2mm/min	MPa	3700	3650	3700	3800	3750	3650	3700
Flexural strength	ISO178	2mm/min	MPa	130	125	123	138	139	120	124
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	1.3	1.3	1.2	1.3	1.3	1.2	1.3
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-	-	-	-
<b>3. Thermal properties</b>										
Vicat softening temperature	ISO306	Load:50N	°C	103	102	102	104	105	101	102
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	88	87	87	89	89	86	86
<b>4. Other properties</b>										
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.07	1.07	1.07	1.08	1.08	1.07	1.07
Rockwell hardness	ISO2039-2	R scale	-	-	-	-	-	-	-	-
	ISO2039-2	M scale	-	-	-	-	-	-	-	-
<b>5. Properties under other standards</b>										
Rockwell hardness(2.5mm)	original	R scale	-	-	-	-	-	-	-	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	-	-	-	-	-	-	2.8
Mold shrinkage	ASTM D955	-	%	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.15-0.35
Surface resistance	ASTM D257	-	Ω	-	-	-	-	-	-	-
Volume resistance	original	-	Ω·cm	-	-	-	-	-	-	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-	-	-	-	-	-
UL class	UL94	-	-	1.5mm HB	-	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB	1.5mm HB
Relative temperature index	UL746A	-	°C	50	-	50	50	50	50	50
Ball pressure temperature (Registered number)	EMAC	-	°C	95 (B-1573)	-	95 (B-1573)	95 (B-1573)	95 (B-1573)	-	100 (B-1574)

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BASIC PROPERTIES				AS	
				GF	
Properties (under ISO 10350)	Standard	Conditions	Units	R340T	R440T
<b>1. Rheological properties</b>					
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	5	11
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	4	10
<b>2. Mechanical properties</b>					
Tensile stress at yield	ISO527-1	50mm/min	MPa	-	-
Tensile stress at yield	ISO527-1	5mm/min	MPa	125	114
Flexural modulus	ISO178	2mm/min	MPa	8000	7950
Flexural strength	ISO178	2mm/min	MPa	184	170
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	5	5
	ISO179	0°C	kJ/m <sup>2</sup>	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-
<b>3. Thermal properties</b>					
Vicat softening temperature	ISO306	Load:50N	°C	-	-
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	107	109
<b>4. Other properties</b>					
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.21	1.22
Rockwell hardness	ISO2039-2	R scale	-	-	-
	ISO2039-2	M scale	-	-	-
<b>5. Properties under other standards</b>					
Rockwell hardness(2.5mm)	original	R scale	-	-	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	2.8	2.8
Mold shrinkage	ASTM D955	-	%	0.15-0.35	0.15-0.35
Surface resistance	ASTM D257	-	Ω	-	-
Volume resistance	original	-	Ω · cm	-	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-	-
UL class	UL94	-	-	1.5mm HB	1.5mm HB
Relative temperature index	UL746A	-	°C	50	50
Ball pressure temperature (Registered number)	EMAC	-	°C	100 (B-1574)	100 (B-1574)

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BASIC PROPERTIES				ACS
				Flame retardant
				Halogen
Properties (under ISO 10350)	Standard	Conditions	Units	NF920
<b>1. Rheological properties</b>				
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	59
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	55
<b>2. Mechanical properties</b>				
Tensile stress at yield	ISO527-1	50mm/min	MPa	44
Tensile stress at yield	ISO527-1	5mm/min	MPa	-
Flexural modulus	ISO178	2mm/min	MPa	2550
Flexural strength	ISO178	2mm/min	MPa	70
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	7
	ISO179	0°C	kJ/m <sup>2</sup>	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-
<b>3. Thermal properties</b>				
Vicat softening temperature	ISO306	Load:50N	°C	88
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	74
<b>4. Other properties</b>				
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.16
Rockwell hardness	ISO2039-2	R scale	-	101
	ISO2039-2	M scale	-	-
<b>5. Properties under other standards</b>				
Rockwell hardness(2.5mm)	original	R scale	-	-
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	7-10
Mold shrinkage	ASTM D955	-	%	0.4-0.7
Surface resistance	ASTM D257	-	Ω	-
Volume resistance	original	-	Ω · cm	-
Thermal conductivity	ASTM D 177	-	W/m·°C	-
UL class	UL94	-	-	2.5mm 5VA 1.5mm V-0
Relative temperature index	UL746A	-	°C	50
Ball pressure temperature (Registered number)	EMAC	-	°C	80 -

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STYLAC(ALLOY)\_Eng

BASIC PROPERTIES				Alloy			
				Painting / Paintless			
				Painting & Low linear expansion coefficient	Good surface appearance unpainted		
Properties (under ISO 10350)	Standard	Conditions	Units	E710T	AT11N	AT27	AT900
<b>1. Rheological properties</b>							
Melt mass-flow rate	ISO1133	220°C、98N	g/10min	-	16	14	12
Melt volume-flow rate	ISO1133	220°C、98N	cm <sup>3</sup> /10min	15(*)	17	14	13
<b>2. Mechanical properties</b>							
Tensile stress at yield	ISO527-1	50mm/min	MPa	43	-	60	64
Tensile stress at yield	ISO527-1	5mm/min	MPa	-	77	-	-
Flexural modulus	ISO178	2mm/min	MPa	3400	3600	2900	2950
Flexural strength	ISO178	2mm/min	MPa	70	122	95	99
Charpy impact strength(notched)	ISO179	23°C	kJ/m <sup>2</sup>	6	1	6	3
	ISO179	0°C	kJ/m <sup>2</sup>	-	-	-	-
	ISO179	-30°C	kJ/m <sup>2</sup>	-	-	-	-
<b>3. Thermal properties</b>							
Vicat softening temperature	ISO306	Load:50N	°C	103	98	104	104
Deflection temperature under load	ISO75-1,2	1.8MPa	°C	84	79	82	81
<b>4. Other properties</b>							
Density	ISO1183	23°C	g/cm <sup>3</sup>	1.20	1.12	1.11	1.14
Rockwell hardness	ISO2039-2	R scale	-	-	-	-	-
	ISO2039-2	M scale	-	-	-	-	-
<b>5. Properties under other standards</b>							
Rockwell hardness(2.5mm)	original	R scale	-	-	122	117	118
Linear expansion coefficient	ASTM D696	-	10 <sup>-5</sup> /°C	6-8	-	-	-
Mold shrinkage	ASTM D955	-	%	0.4-0.6	-	-	-
Surface resistance	ASTM D257	-	Ω	-	-	-	-
Volume resistance	original	-	Ω · cm	-	-	-	-
Thermal conductivity	ASTM D 177	-	W/m · °C	-	-	-	-
UL class	UL94	-	-	-	-	-	-
Relative temperature index	UL746A	-	°C	-	-	-	-
Ball pressure temperature (Registered number)	EMAC	-	°C	-	-	-	-

(\*) Conditions : 240°C、49N

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