



CONDUCTIVE PLASTICS SPECIFICATIONS

PC/ABS Stainless Steel Fiber (12%)

PROPERTIES	TEST METHOD	UNIT	DATA
CONDUCTIVE FILLER			Stainless Steel Fiber (12%)
COLOR			Natural (Gray)
SUBSTRATE			PC/ABS (88%)
ELECTROMAGNETIC SHIELDING PERFORMANCE			
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1
ELECTRICAL			
Surface Resistivity	IEC 167	Ω/sq	≤100
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/
THERMAL			
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/
Thermal distortion temperature	GB/T 1634.1-2004	°C	90.6 (1.8Mpa, 4mm)
Thermal softening temperature	GB/T 1633--2000	°C	/
PHYSICAL			
Density	GB/T 1033.1-2008	g/ cm3	/
Tensile Strength	GB/T 1040.1-2006	Mpa	56.75
Tensile Modulus	GB/T 1040-2006	Mpa	/
Flexural Strength	GB/T 9341-2008	Mpa	93.40
Flexural Modulus	GB/T 9341-2008	Mpa	3510
Tensile Elongation	GB/T 1040.2006	%	4.18
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal
			Vertical
Impact Strength (notched)	ASTM D955-08	J/m	39.5
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A
FLAME RETARDANT			
Flame-retardant grades	GB/T 2408-2008	2mm	V-0

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	61.29	62.84	64.16	64.19	66.55	74.64
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	77.44	86.8	83.50	93.65	87.08	



CONDUCTIVE PLASTICS SPECIFICATIONS

PC/ABS Stainless Steel Fiber (15%)

PROPERTIES	TEST METHOD	UNIT	DATA	
CONDUCTIVE FILLER			Stainless Steel Fiber (15%)	
COLOR			Natural (Gray)	
SUBSTRATE			PC/ABS (85%)	
ELECTROMAGNETIC SHIELDING PERFORMANCE				
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1	
ELECTRICAL				
Surface Resistivity	IEC 167	Ω/sq	≤50	
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/	
THERMAL				
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/	
Thermal distortion temperature	GB/T 1634.1-2004	°C	93.0 (1.8Mpa, 4mm)	
Thermal softening temperature	GB/T 1633--2000	°C	/	
PHYSICAL				
Density	GB/T 1033.1-2008	g/ cm3	/	
Tensile Strength	GB/T 1040.1-2006	Mpa	58.20	
Tensile Modulus	GB/T 1040-2006	Mpa	/	
Flexural Strength	GB/T 9341-2008	Mpa	94.44	
Flexural Modulus	GB/T 9341-2008	Mpa	3578	
Tensile Elongation	GB/T 1040.2006	%	4.3	
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal	/
			Vertical	/
Impact Strength (notched)	ASTM D955-08	J/m	33.2	
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A	
FLAME RETARDANT				
Flame-retardant grades	GB/T 2408-2008	2mm	V-0	

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	62.92	61.71	65.95	67.88	70.75	77.75
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	79.99	91.76	88.12	95.26	89.5	



CONDUCTIVE PLASTICS SPECIFICATIONS

PC/ABS Stainless Steel Fiber (18%)

PROPERTIES	TEST METHOD	UNIT	DATA
CONDUCTIVE FILLER			Stainless Steel Fiber (18%)
COLOR			Natural (Gray)
SUBSTRATE			PC/ABS (82%)
ELECTROMAGNETIC SHIELDING PERFORMANCE			
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1
ELECTRICAL			
Surface Resistivity	IEC 167	Ω/sq	≤10
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/
THERMAL			
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/
Thermal distortion temperature	GB/T 1634.1-2004	°C	94.5 (1.8Mpa, 4mm)
Thermal softening temperature	GB/T 1633--2000	°C	/
PHYSICAL			
Density	GB/T 1033.1-2008	g/ cm3	/
Tensile Strength	GB/T 1040.1-2006	Mpa	59.35
Tensile Modulus	GB/T 1040-2006	Mpa	/
Flexural Strength	GB/T 9341-2008	Mpa	98.73
Flexural Modulus	GB/T 9341-2008	Mpa	3649
Tensile Elongation	GB/T 1040.2006	%	4.66
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal
			Vertical
Impact Strength (notched)	ASTM D955-08	J/m	22.6
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A
FLAME RETARDANT			
Flame-retardant grades	GB/T 2408-2008	2mm	V-0

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	61.85	64.71	70.63	72.92	74.70	84.43
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	86.62	93.11	92.34	96.26	91.2	



CONDUCTIVE PLASTICS SPECIFICATIONS

PC Stainless Steel Fiber (12%)

PROPERTIES	TEST METHOD	UNIT	DATA	
CONDUCTIVE FILLER			Stainless Steel Fiber (12%)	
COLOR			Natural (Gray)	
SUBSTRATE			PC (88%)	
ELECTROMAGNETIC SHIELDING PERFORMANCE				
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1	
ELECTRICAL				
Surface Resistivity	IEC 167	Ω/sq	≤100	
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/	
THERMAL				
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/	
Thermal distortion temperature	GB/T 1634.1-2004	°C	127.6 (1.8Mpa, 4mm)	
Thermal softening temperature	GB/T 1633--2000	°C	/	
PHYSICAL				
Density	GB/T 1033.1-2008	g/ cm3	/	
Tensile Strength	GB/T 1040.1-2006	Mpa	65.4	
Tensile Modulus	GB/T 1040-2006	Mpa	/	
Flexural Strength	GB/T 9341-2008	Mpa	105.96	
Flexural Modulus	GB/T 9341-2008	Mpa	3013	
Tensile Elongation	GB/T 1040.2006	%	6.49	
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal	/
			Vertical	/
Impact Strength (notched)	ASTM D955-08	J/m	32.6	
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A	
FLAME RETARDANT				
Flame-retardant grades	GB/T 2408-2008	2mm	V-0	

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	56.37	65.25	69.33	69.67	75.18	80.44
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	84.43	85.76	79.34	92.40	88.08	



CONDUCTIVE PLASTICS SPECIFICATIONS

PC Stainless Steel Fiber (15%)

PROPERTIES	TEST METHOD	UNIT	DATA	
CONDUCTIVE FILLER			Stainless Steel Fiber (15%)	
COLOR			Natural (Gray)	
SUBSTRATE			PC (85%)	
ELECTROMAGNETIC SHIELDING PERFORMANCE				
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1	
ELECTRICAL				
Surface Resistivity	IEC 167	Ω/sq	≤50	
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/	
THERMAL				
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/	
Thermal distortion temperature	GB/T 1634.1-2004	°C	128.8 (1.8Mpa, 4mm)	
Thermal softening temperature	GB/T 1633--2000	°C	/	
PHYSICAL				
Density	GB/T 1033.1-2008	g/ cm3	/	
Tensile Strength	GB/T 1040.1-2006	Mpa	67.24	
Tensile Modulus	GB/T 1040-2006	Mpa	/	
Flexural Strength	GB/T 9341-2008	Mpa	115.43	
Flexural Modulus	GB/T 9341-2008	Mpa	3262	
Tensile Elongation	GB/T 1040.2006	%	6.33	
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal	/
			Vertical	/
Impact Strength (notched)	ASTM D955-08	J/m	26.5	
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A	
FLAME RETARDANT				
Flame-retardant grades	GB/T 2408-2008	2mm	V-0	

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	60.26	66.17	70.02	72.58	75.42	79.87
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	83.12	89.16	86.81	93.9	89.29	



CONDUCTIVE PLASTICS SPECIFICATIONS

PC Stainless Steel Fiber (18%)

PROPERTIES	TEST METHOD	UNIT	DATA
CONDUCTIVE FILLER			Stainless Steel Fiber (18%)
COLOR			Natural (Gray)
SUBSTRATE			PC (82%)
ELECTROMAGNETIC SHIELDING PERFORMANCE			
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1
ELECTRICAL			
Surface Resistivity	IEC 167	Ω/sq	≤10
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/
THERMAL			
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/
Thermal distortion temperature	GB/T 1634.1-2004	°C	131.7 (1.8Mpa, 4mm)
Thermal softening temperature	GB/T 1633--2000	°C	/
PHYSICAL			
Density	GB/T 1033.1-2008	g/ cm3	/
Tensile Strength	GB/T 1040.1-2006	Mpa	68.25
Tensile Modulus	GB/T 1040-2006	Mpa	/
Flexural Strength	GB/T 9341-2008	Mpa	118.55
Flexural Modulus	GB/T 9341-2008	Mpa	3421
Tensile Elongation	GB/T 1040.2006	%	6.80
Mould Shrinkage Rate	ASTM D256-10	%	
		Horizontal	/
Vertical	/		
Impact Strength (notched)	ASTM D955-08	J/m	23.4
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A
FLAME RETARDANT			
Flame-retardant grades	GB/T 2408-2008	2mm	V-0

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	65.65	69.84	78.10	80.26	82.81	85.66
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	88.61	87.87	91.84	95.25	92.0	



CONDUCTIVE PLASTICS SPECIFICATIONS

ABS Stainless Steel Fiber (12%)

PROPERTIES	TEST METHOD	UNIT	DATA	
CONDUCTIVE FILLER			Stainless Steel Fiber (12%)	
COLOR			Natural (Gray)	
SUBSTRATE			ABS (88%)	
ELECTROMAGNETIC SHIELDING PERFORMANCE				
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1	
ELECTRICAL				
Surface Resistivity	IEC 167	Ω/sq	≤100	
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/	
THERMAL				
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/	
Thermal distortion temperature	GB/T 1634.1-2004	°C	79.5 (1.8Mpa, 4mm)	
Thermal softening temperature	GB/T 1633--2000	°C	/	
PHYSICAL				
Density	GB/T 1033.1-2008	g/ cm3	/	
Tensile Strength	GB/T 1040.1-2006	Mpa	36.47	
Tensile Modulus	GB/T 1040-2006	Mpa	/	
Flexural Strength	GB/T 9341-2008	Mpa	56.20	
Flexural Modulus	GB/T 9341-2008	Mpa	2402	
Tensile Elongation	GB/T 1040.2006	%	4.14	
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal	/
			Vertical	/
Impact Strength (notched)	ASTM D955-08	J/m	41.00	
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A	
FLAME RETARDANT				
Flame-retardant grades	GB/T 2408-2008	2mm	V-0	

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	78.24	80.49	81.55	87.61	77.59	75.73
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	80.10	81.26	86.29	93.68	90.54	



CONDUCTIVE PLASTICS SPECIFICATIONS

ABS Stainless Steel Fiber (15%)

PROPERTIES	TEST METHOD	UNIT	DATA
CONDUCTIVE FILLER			Stainless Steel Fiber (15%)
COLOR			Natural (Gray)
SUBSTRATE			ABS (85%)
ELECTROMAGNETIC SHIELDING PERFORMANCE			
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1
ELECTRICAL			
Surface Resistivity	IEC 167	Ω/sq	≤50
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/
THERMAL			
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/
Thermal distortion temperature	GB/T 1634.1-2004	°C	80.3 (1.8Mpa, 4mm)
Thermal softening temperature	GB/T 1633--2000	°C	/
PHYSICAL			
Density	GB/T 1033.1-2008	g/ cm3	/
Tensile Strength	GB/T 1040.1-2006	Mpa	37.21
Tensile Modulus	GB/T 1040-2006	Mpa	/
Flexural Strength	GB/T 9341-2008	Mpa	57.30
Flexural Modulus	GB/T 9341-2008	Mpa	2528
Tensile Elongation	GB/T 1040.2006	%	4.20
Mould Shrinkage Rate	ASTM D256-10	%	
		Horizontal	/
		Vertical	/
Impact Strength (notched)	ASTM D955-08	J/m	39.80
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A
FLAME RETARDANT			
Flame-retardant grades	GB/T 2408-2008	2mm	V-0

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	78.73	82.33	98.29	99.05	87.22	80.00
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	76.95	82.60	89.39	94.68	91.54	



CONDUCTIVE PLASTICS SPECIFICATIONS

ABS Stainless Steel Fiber (18%)

PROPERTIES	TEST METHOD	UNIT	DATA
CONDUCTIVE FILLER			Stainless Steel Fiber (18%)
COLOR			Natural (Gray)
SUBSTRATE			ABS (82%)
ELECTROMAGNETIC SHIELDING PERFORMANCE			
Shielding Effectiveness 2mm Wall Thickness 30MHZ-3GHZ	SJ 20524-1995	dB	See Attachment 1
ELECTRICAL			
Surface Resistivity	IEC 167	Ω/sq	≤10
Volume Resistivity	ASTM D 4496-2004	Ω.cm	/
THERMAL			
Thermal expansion coefficient	ASTMD686	m/m °C.10-6	/
Thermal distortion temperature	GB/T 1634.1-2004	°C	81.9 (1.8Mpa, 4mm)
Thermal softening temperature	GB/T 1633--2000	°C	/
PHYSICAL			
Density	GB/T 1033.1-2008	g/ cm3	/
Tensile Strength	GB/T 1040.1-2006	Mpa	38.46
Tensile Modulus	GB/T 1040-2006	Mpa	/
Flexural Strength	GB/T 9341-2008	Mpa	59.32
Flexural Modulus	GB/T 9341-2008	Mpa	2672
Tensile Elongation	GB/T 1040.2006	%	4.26
Mould Shrinkage Rate	ASTM D256-10	%	Horizontal
			Vertical
Impact Strength (notched)	ASTM D955-08	J/m	38.9
Impact Strength (no gaps)	ASTM D256-10	J/m	N/A
FLAME RETARDANT			
Flame-retardant grades	GB/T 2408-2008	2mm	V-0

Attachment 1 (Unit: dB)

Frequency	30MHZ	100MHZ	200MHZ	300MHZ	500MHZ	700MHZ
Data	74.54	82.35	93.11	94.75	96.07	90.47
Frequency	1000MHZ	1500MHZ	2000MHZ	2500MHZ	3000MHZ	
Data	89.09	93.71	94.84	95.68	91.87	