



FARADEx\* compounds  
EMI Shielding material

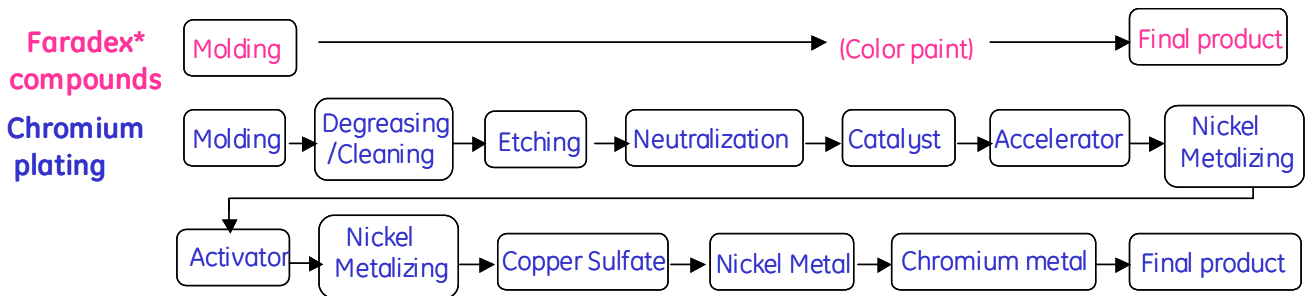
Are you using plating?  
Are you using conductive painting?

# EMI shielding solutions from LNP\* Faradex\* Compounds

Faradex\* compounds are stainless steel filled conductive compounds. They are engineered mainly for protection against EMI (Electro Magnetic Interface) and ESD (Electro Static Discharge).

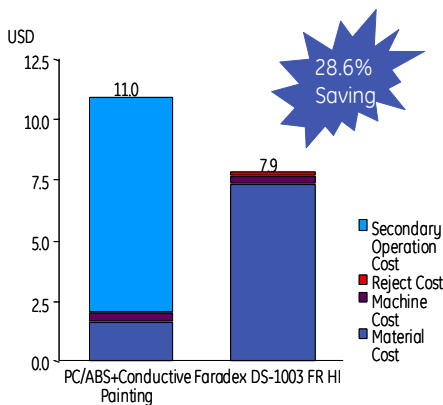
Faradex\* compounds is high reliability shielding method compare with existing coating method and more effect for the cost.

## • Faradex\* compounds can save money and production time



In case of DVD player enclosure

Faradex\* compounds offers you :

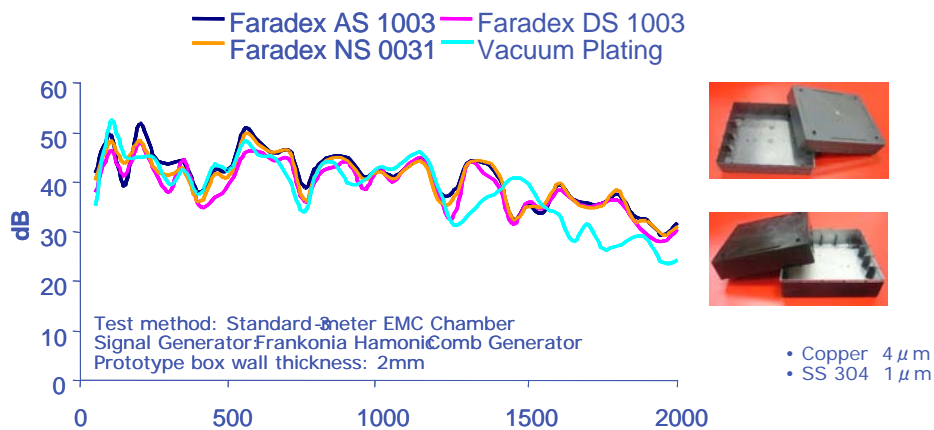


- An effective alternative vs. metal
- Design freedom
- Weight reduction
- Processing ease
- No secondary operations required
- Colorable
- An effective alternative vs. plastics with conductive coatings
- No secondary operations required
- Colorable
- Durable system
- Environmentally advantageus
- No mold modification required

## - Faradex\* compounds Product line

- PC/ABS (Non-brominate)
- PC (Non-brominate)
- PP
- PA 6
- PBT (developmental)
- PPS (developmental)

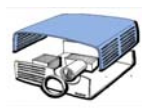
## - EMI shielding performance (SE Performance vs. Plating)



## - Target Market Opportunities for Faradex\* compounds



POS Machine/  
Test Meter



Projector



DVD Combo



LCD Frame  
/GPS Housing



Digital Camera



Portable DVD



Telecom Terminal



IP Camera

# Faradex\* Compounds

	Unit	Method	FR15U	AS-1003 NAT	AS-1003 FR BK8-038-5	C6600	PCAS1003 NAT	* NS0031	Lexan 940A	DS-1003 FR HI
			Non filler ABS	ABS + SS Fiber	ABS + SS Fiber	Non filler PC/ABS	PC/ABS + SS Fiber	PC/ABS + SS Fiber	Non filler PC	PC + SS Fiber
Tensile Stress, yield, 50 mm/min	MPa	ISO 527	41	38	35	60	50	-	63	-
Tensile Stress, break, 50 mm/min	MPa	ISO 527	-	37	-	50	46	60	65	55
Tensile Strain, yield, 50 mm/min	%	ISO 527	-	2.2	4 - 7	4	3.5	-	6	-
Tensile Strain, break, 50 mm/min	%	ISO 527	22	2.8	-	>50	6	3.5	100	4 - 8
Tensile Modulus, 1 mm/min	MPa	ISO 527	2210	2700	-	2700	2700		2350	-
Flexural Stress, yield, 2 mm/min	MPa	ISO 178	63	66	65	90	86	106	90	80
Flexural Modulus, 2 mm/min	MPa	ISO 178	2260	2800	2700	2700	2800	3290	2300	2600
Izod Impact, unnotched 80*10*4 +23°C	kJ/m <sup>2</sup>	ISO 180/1U	-	18	20	-	32	41.4	NB	85
Izod Impact, notched 80*10*4 +23°C	kJ/m <sup>2</sup>	ISO 180/1A	12	7	8	15	10	6.4	12	11
HDT/Be, 0.45MPa	°C	ISO 75/Be	84	93	95	90	115	-	136	135
HDT/Ae, 1.8 Mpa	°C	ISO 75/Ae	73	78	80	80	103	102	125	125
Mold Shrinkage on Tensile Bar, flow	%	GE Method	0.4 - 0.7	0.4 - 0.7	0.4 - 0.7	0.4 - 0.6	0.4 - 0.7	0.55 - 0.6	0.5 - 0.7	0.4 - 0.7
Density	g/cm <sup>3</sup>	ISO 1183	1.19	1.15	1.29	1.19	1.21	1.32	1.2	1.29
Surface Resistivity	Ohm	ASTM D 257	1E+14	1.E+01 - 1.E+04	1.0E01 - 1.0E04	>1.E+15	1.E+01 - 1.E+03	1.00E+05	>1.E+15	1.E+02 - 1.E+04
Shielding Effectiveness @ 0.125"	dB	ASTM D 4935	-	50 - 65	50 - 65	-	50 - 65	47.2	-	40 - 55
UL Recognized, 94V-0	mm	UL 94	1.5	-	3	1.5	-	1.5	3	2.1

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