

HM Carbon Nanotube Masterbatches



Product Highlights

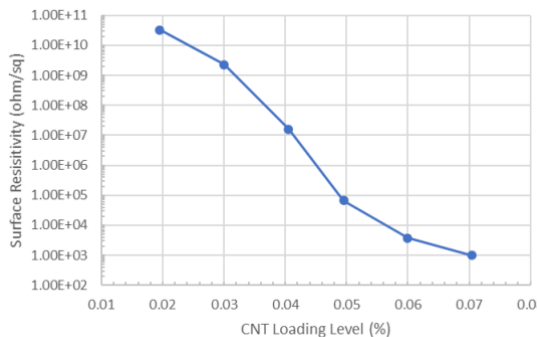
- Low-cost Industrial scale production
- Outstanding electrical conductivity at low loading
- Excellent mechanical properties retention
- Reduce dust contamination in processing

Applications

- Injection Molding and extrusion
- Antistatic, ESD and electrically conductive parts
- Automotive, electronics and construction
- 3D printing

Electrical and Mechanical Properties vs Letdown Ratio

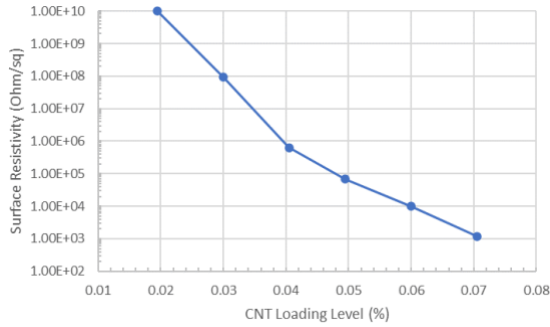
HM-PPO-15 (15wt% CNT Content)



	Let Down Ratio	7.5 : 1		3.75 : 1		2.5 : 1	
		CNT content	0%	2%	4%	6%	
Tensile Strength (MPa)			54.0	55.0	56.3	56.5	
Elongation at Break (%)			13.7	8.0	3.8	1.7	
Flexural Strength (MPa)			101.8	104.5	105.0	107.1	
Flexural Modulus (MPa)			2109	2314	2513	2799	
Izod Impact (kJ/m ²)			5.6	5.4	4.1	3.2	

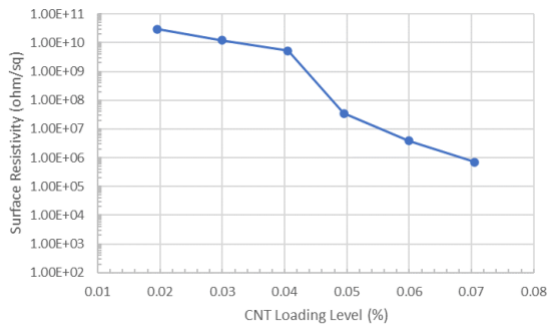
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HM-PC-15 (15wt% CNT Content)



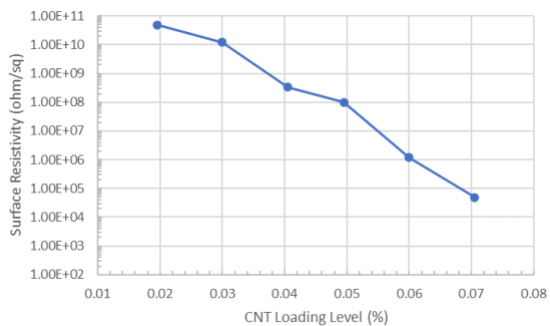
	Let Down Ratio				
	CNT content	0%	2%	4%	6%
Tensile Strength (MPa)		57.2	60.9	63.1	67.2
Elongation at Break (%)		40.0	23.6	14.8	6.5
Flexural Strength (MPa)		94.6	97.4	99.7	102.6
Flexural Modulus (MPa)		2155	2359	2590	2896
Izod Impact (kJ/m²)		59.6	12.4	4.9	3.2

HM-PA6-15 (15wt% CNT Content)



	Let Down Ratio				
	CNT content	0%	2%	4%	6%
Tensile Strength (MPa)		59.7	71.9	73.3	75.9
Elongation at Break (%)		10.5	3.6	2.8	1.7
Flexural Strength (MPa)		96.9	116.2	131.0	136.6
Flexural Modulus (MPa)		2226	2749	3262	3317
Izod Impact (kJ/m²)		5.0	4.8	4.3	3.7

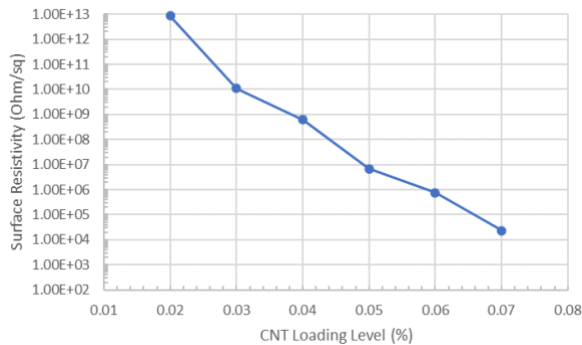
HM-ABS-20 (20wt% CNT Content)



	Let Down Ratio				
	CNT content	0%	2%	4%	6%
Tensile Strength (MPa)		40.7	45.9	52.0	54.9
Elongation at Break (%)		4.3	3.8	3.2	2.2
Flexural Strength (MPa)		78.3	86.3	90.9	91.5
Flexural Modulus (MPa)		2223	2510	2766	3081
Izod Impact (kJ/m²)		21.5	8.5	5.7	4.6

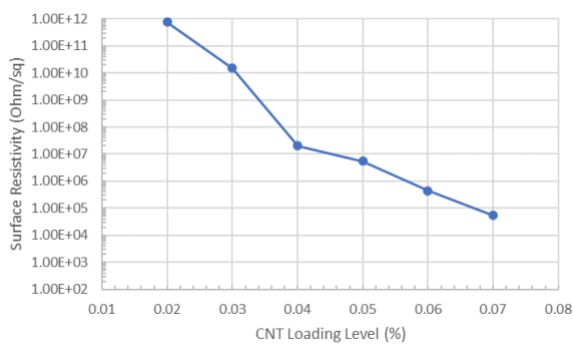
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HM-PP-20 (20wt% CNT Content)



	Let Down Ratio	10 : 1		5 : 1	3.3 : 1
		CNT content	0%	2%	4%
Tensile Strength (MPa)		21.4	21.5	21.9	21.9
Elongation at Break (%)		10.3	18.4	19.3	30.3
Flexural Strength (MPa)		41.0	42.7	43.4	44.4
Flexural Modulus (MPa)		1512	1521	1528	1555
Izod Impact (kJ/m ²)		14.6	18.65	13.1	13.4

HM-PE-20 (20wt% CNT Content)



	Let Down Ratio	10 : 1		5 : 1	3.3 : 1
		CNT content	0%	2%	4%
Tensile Strength (MPa)		11.3	13.0	13.9	14.3
Elongation at Break (%)		106	76	47	39
Flexural Strength (MPa)		15.5	18.3	18.5	19.9
Flexural Modulus (MPa)		382	467	486	541
Izod Impact (kJ/m ²)		46.1	15.8	12.1	8.9

Safety Information

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from the website. The Safety Data Sheet is provided with any order and should be observed.

Order

Heebut's minimum order for a trail sample of the CNT granules is 1 lb. (454 g) For large scale order, please contact Heebut Materials at lee.heebut@gmail.com.

Disclaimer

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