

Table. S1 All data of flexural test and Interlaminar Shear test of control

Control	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1723.41	122.25	96.27
2	1725.92	122.75	100.19
3	1727.45	124.22	104.14
4	1727.43	124.84	103.00
5	1726.28	125.08	106.93
6	1719.18	121.17	110.46
Average value	1724. 95	123.38	103.00
Standard deviation value	3.19	1.60	4.98

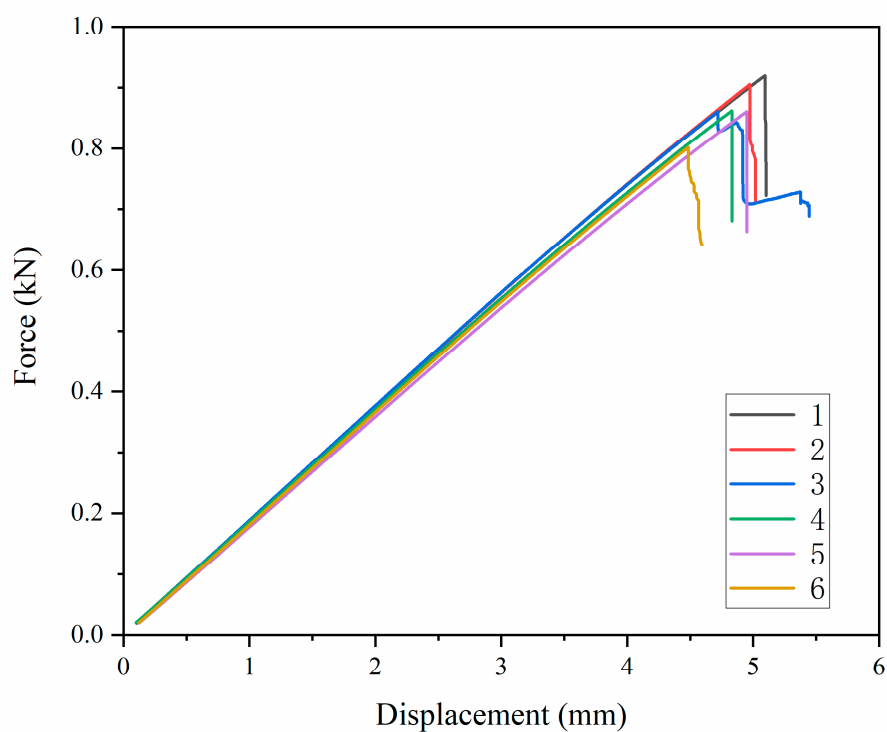


Fig.S1 Force-displacement curve of flexural test of control.

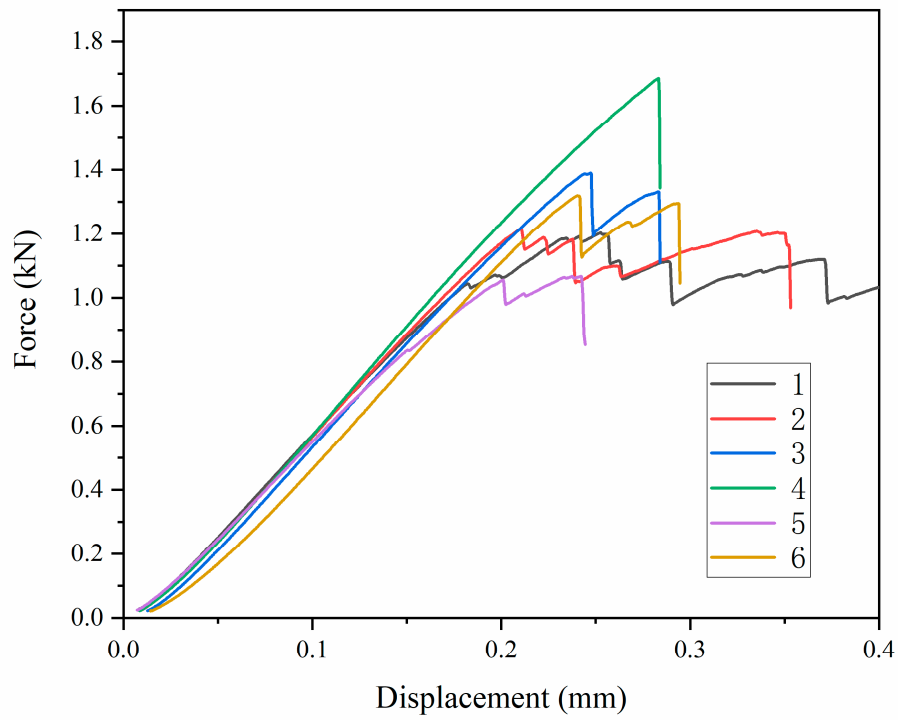


Fig.S2 Force-displacement curve of interlaminar shear strength test of control.

Table. S2 All data of flexural test and Interlaminar Shear test of PEI_(C)

PEI _(C)	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1607.35	116.63	101.84
2	1611.26	109.92	97.15
3	1613.92	111.49	103.68
4	1613.69	116.25	94.58
5	1611.83	108.92	98.49
6	1599.95	113.86	101.94
Average value	1609.67	112.84	99.61
Standard deviation value	5.32	3.25	3.50

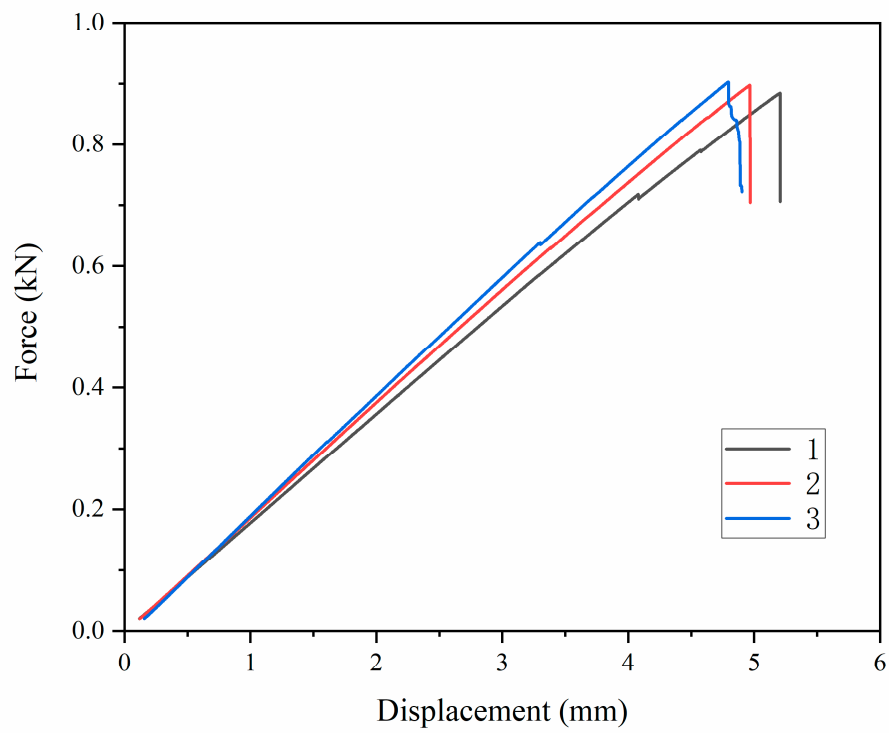


Fig.S3 Force-displacement curve of flexural test of PEI_(C).

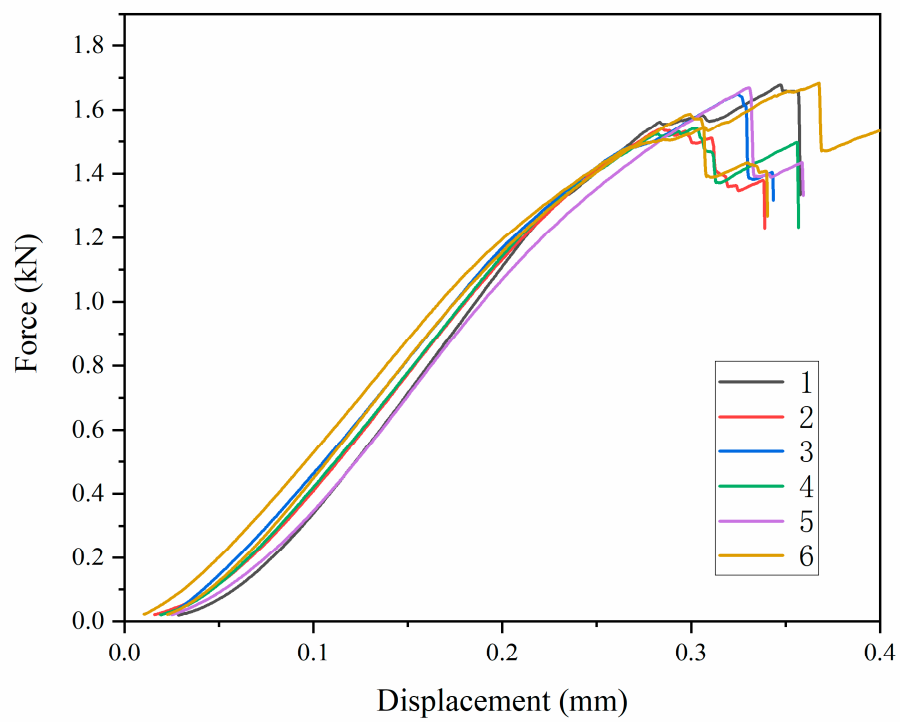


Fig.S4 Force-displacement curve of interlaminar shear strength test of PEI_(C).

Table. S3 All data of flexural test and Interlaminar Shear test of PEI_(D).

PEI _(D)	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1534.21	111.29	97.71
2	1536.21	109.70	94.34
3	1536.21	111.93	98.59
4	1532.38	110.45	92.37
5	1535.59	112.53	95.54
6	1542.68	111.39	90.05
Average value	1536.21	111.21	94.77
Standard deviation value	3.49	1.02	3.23

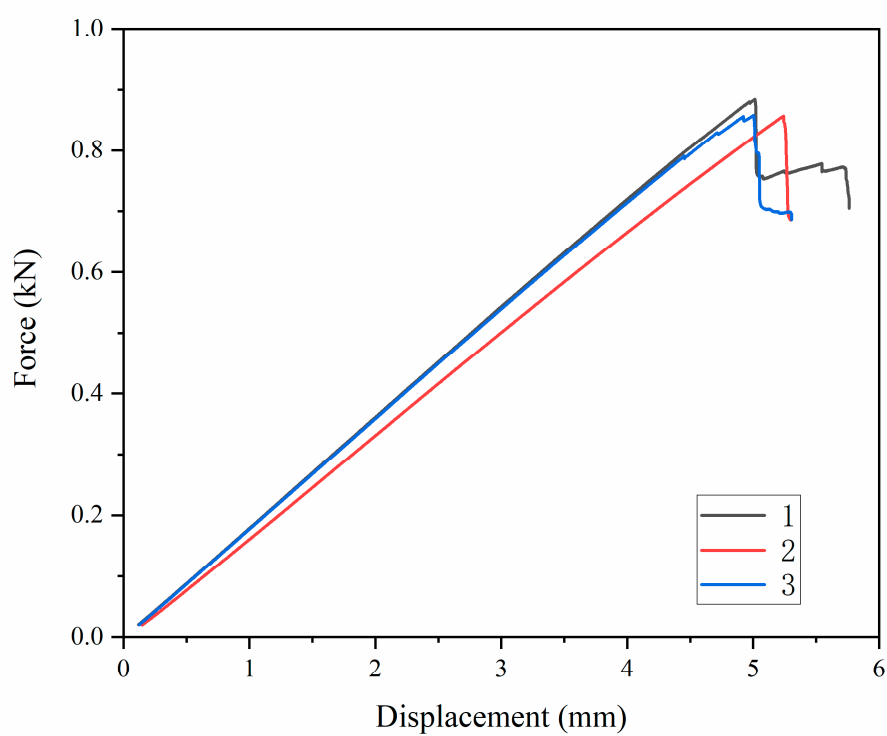


Fig.S5 Force-displacement curve of flexural test of PEI_(D).

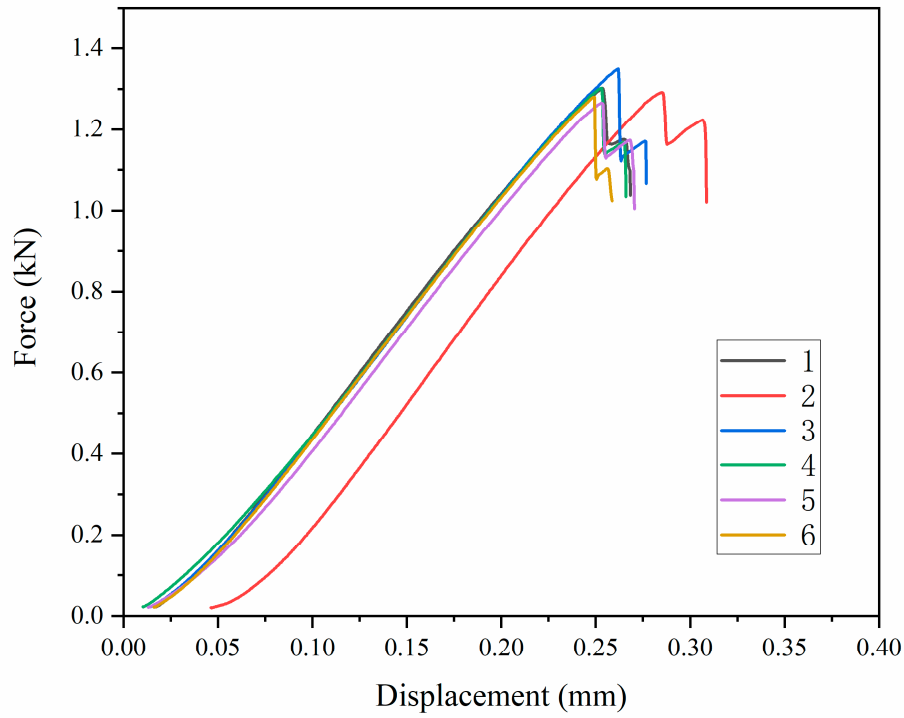


Fig.S6 Force-displacement curve of interlaminar shear strength test of PEI_(D).

Table. S4 All data of flexural test and Interlaminar Shear test of MWCNTs/PEI_(C).

MWCNTs/PEI _(C)	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1676.75	127.80	108.61
2	1679.50	127.17	96.37
3	1680.87	127.42	99.71
4	1677.33	125.29	103.53
5	1672.05	127.15	97.66
6	1680.61	127.01	102.85
Average value	1677.90	126.97	101.46
Standard deviation value	3.30	0.87	4.49

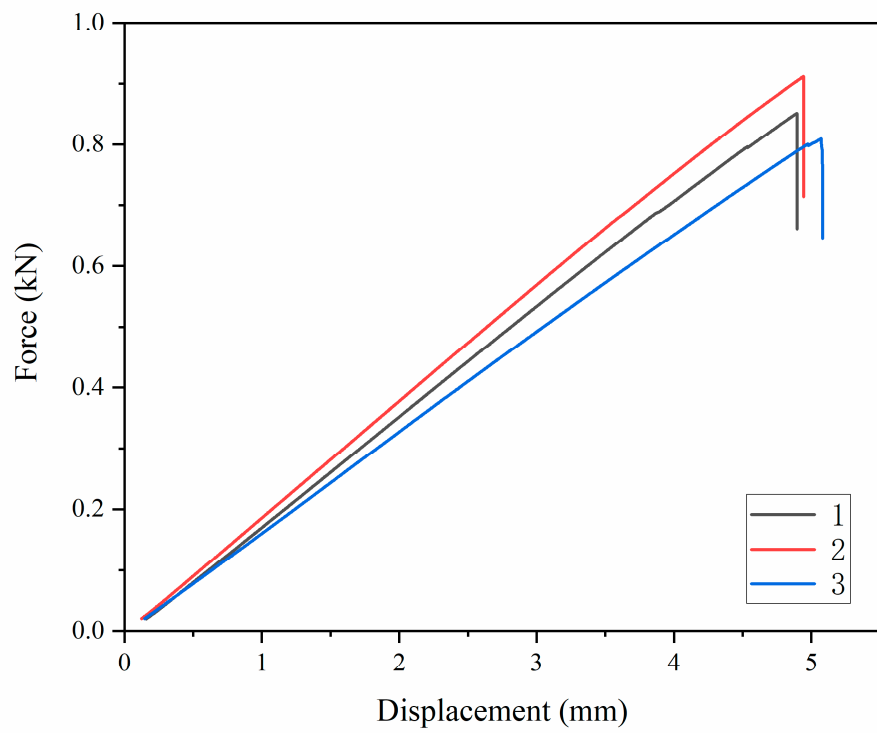


Fig.S7 Force-displacement curve of flexural test of MWCNTs/PEI_(C).

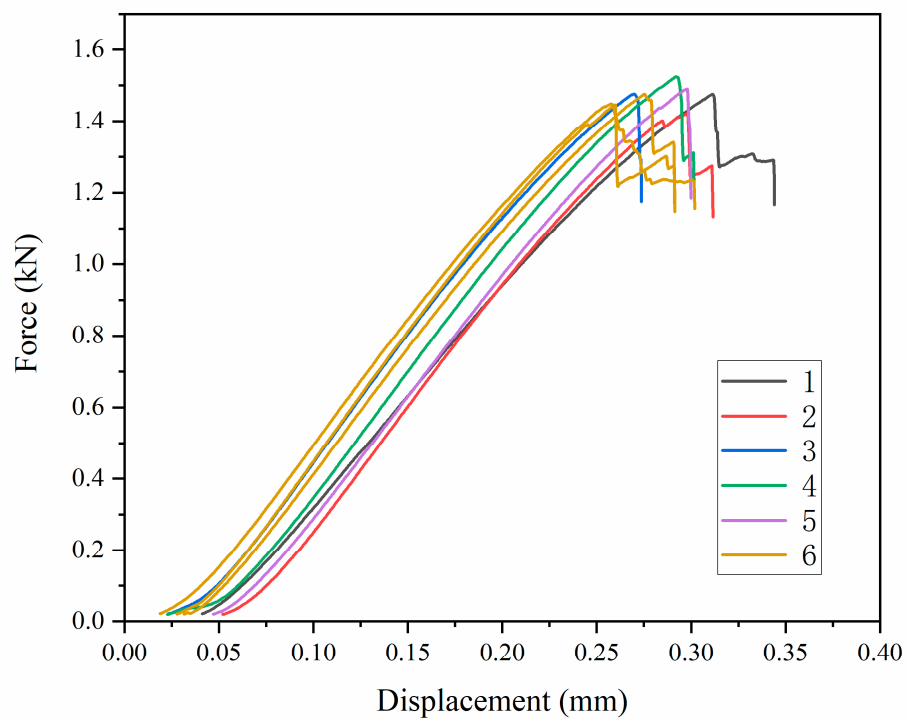


Fig.S8 Force-displacement curve of interlaminar shear strength test of MWCNTs/PEI_(C).

Table. S5 All data of flexural test and Interlaminar Shear test of MWCNTs/PEI_(D).

MWCNTs/PEI(D)	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1611.56	119.45	100.19
2	1621.64	120.13	101.95
3	1622.02	120.04	101.30
4	1614.35	119.44	99.91
5	1616.05	119.30	96.48
6	1617.78	119.56	105.17
Average value	1617.23	119.65	100.83
Standard deviation value	4.11	0.30	2.85

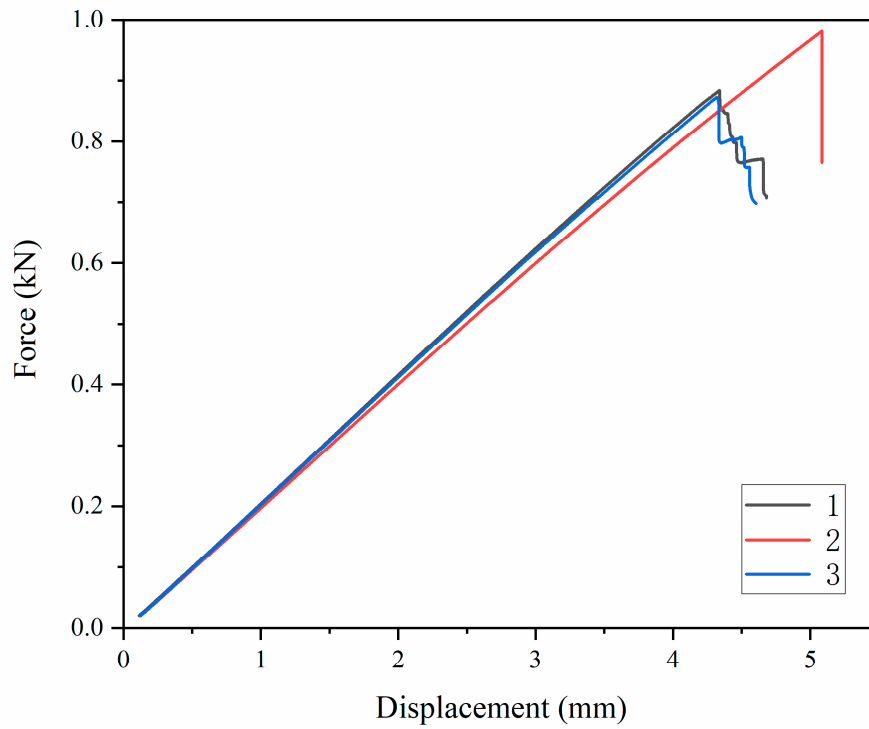


Fig.S9 Force-displacement curve of flexural test of MWCNTs/PEI_(D).

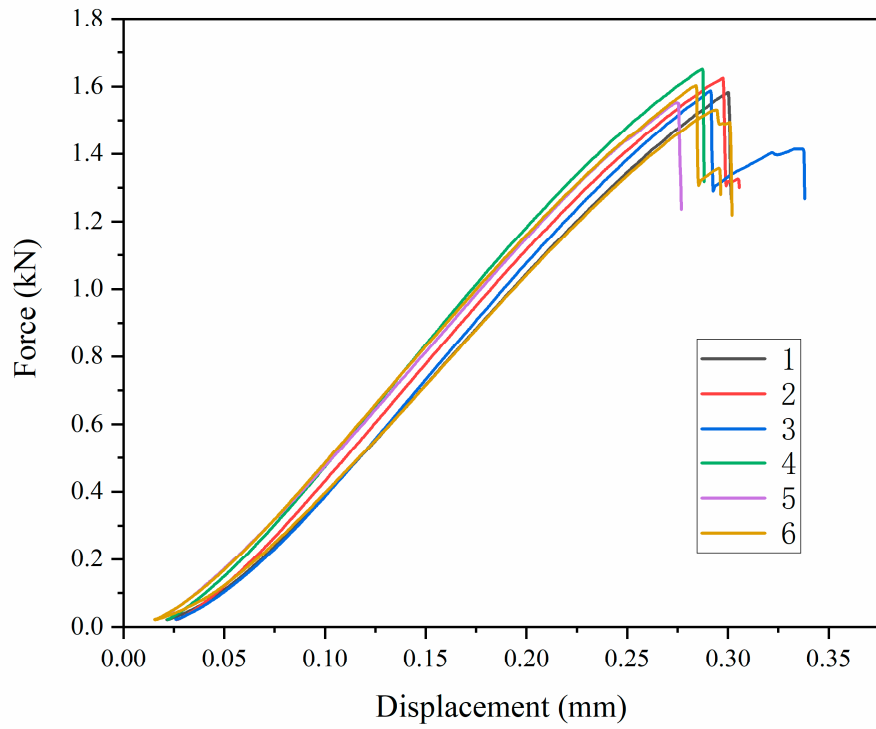


Fig.S10 Force-displacement curve of interlaminar shear strength test of MWCNTs/PEI_(D).

Table. S6 All data of flexural test and Interlaminar Shear test of MWCNTs@PDA/PEI_(C).

MWCNTs@PDA /PEI _(C)	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1893.97	141.84	114.01
2	1899.60	141.84	107.83
3	1884.65	141.88	110.29
4	1885.04	145.81	110.22
5	1884.49	133.67	111.83
6	1885.35	145.97	107.58
Average value	1888.8	141.84	110.29
Standard deviation value	6.41	4.46	2.43

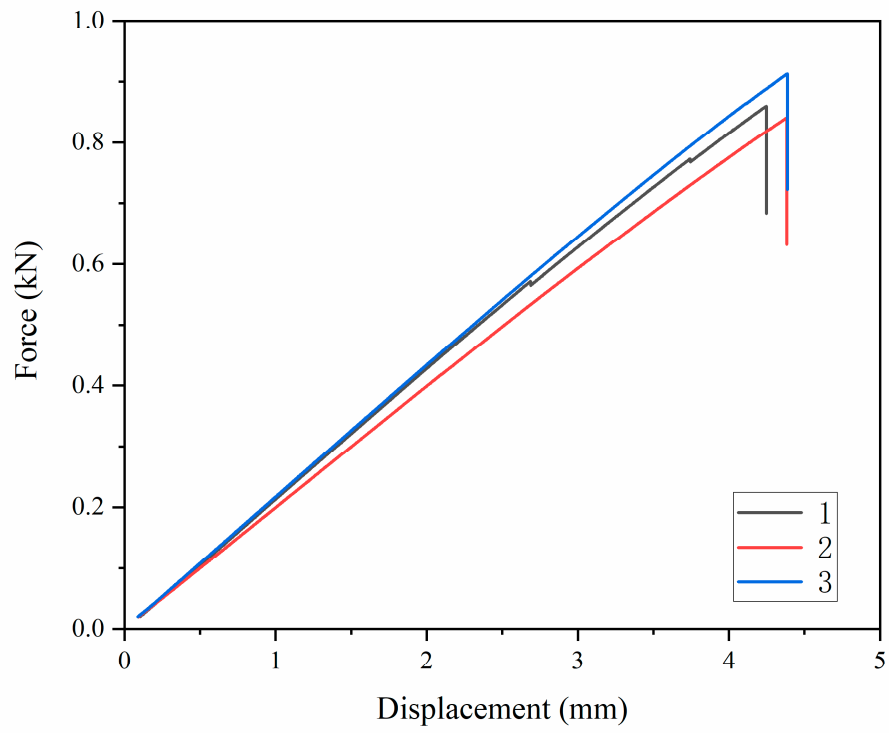


Fig.S11 Force-displacement curve of flexural test of MWCNTs@PDA/PEI_(C).

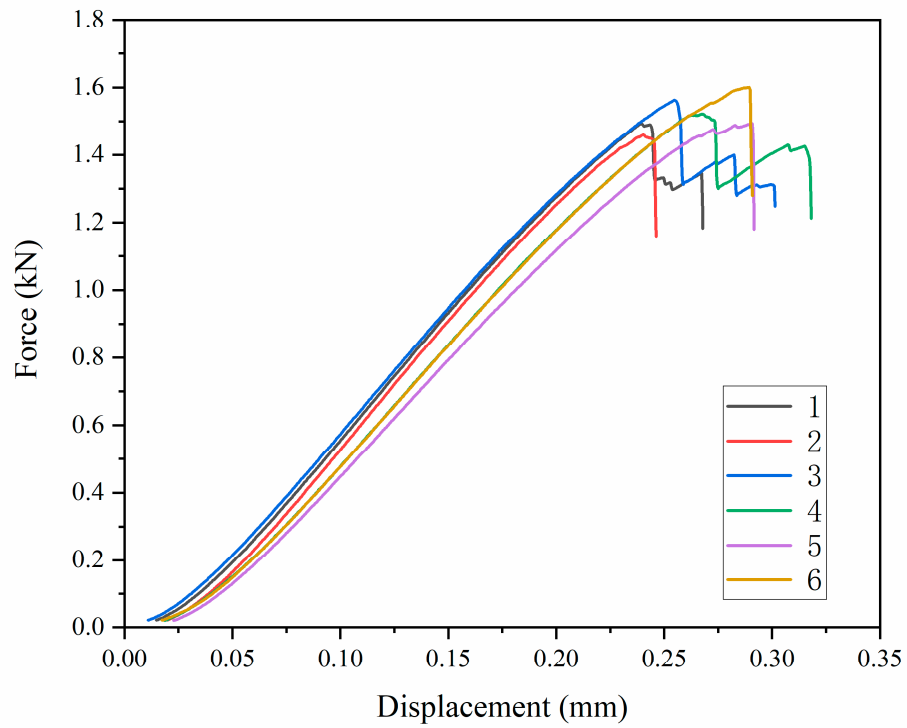


Fig.S12 Force-displacement curve of interlaminar shear strength test of MWCNTs@PDA/PEI_(C).

MWCNTs@PDA/PEI_(C).

Table. S7 All data of flexural test and Interlaminar Shear test of MWCNTs@PDA/PEI_(D).

MWCNTs@PDA/PEI _(D)	Flexural strength/MP	Flexural modulus/GPa	Interlaminar Shear strength/MP
1	1868.91	133.34	104.38
2	1869.28	133.33	101.53
3	1864.58	136.63	107.17
4	1862.02	130.21	108.45
5	1869.29	133.30	115.04
6	1869.32	131.53	106.43
Average value	1867.23	133.06	107.17
Standard deviation value	3.16	2.16	4.55

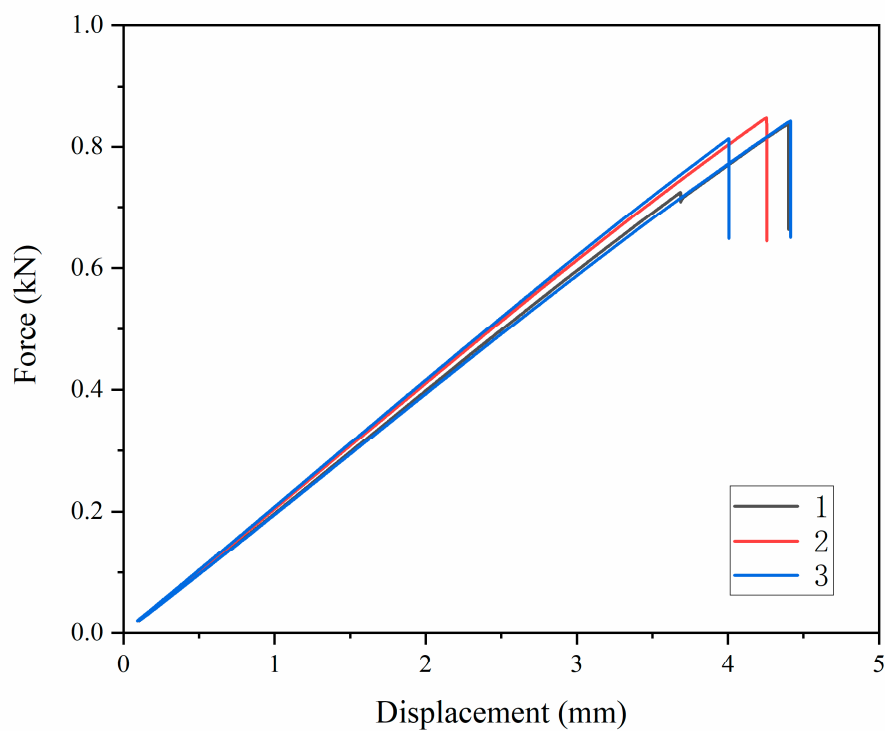


Fig.S13 Force-displacement curve of flexural test of MWCNTs@PDA/PEI_(D).

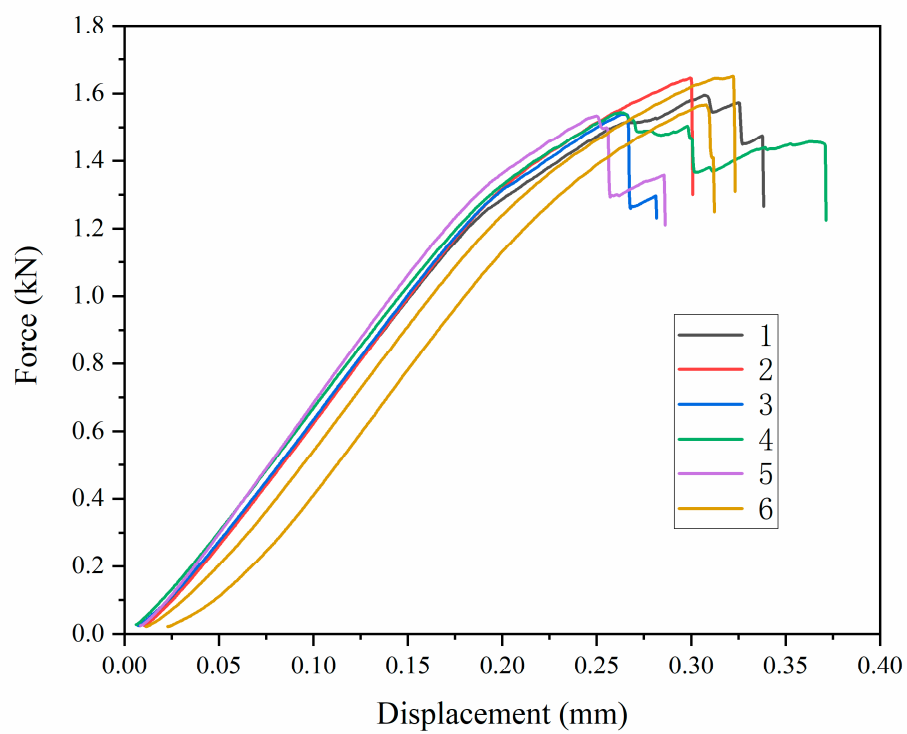


Fig.S14 Force-displacement curve of interlaminar shear strength test of MWCNTs@PDA/PEI(D).