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FIG. 1A

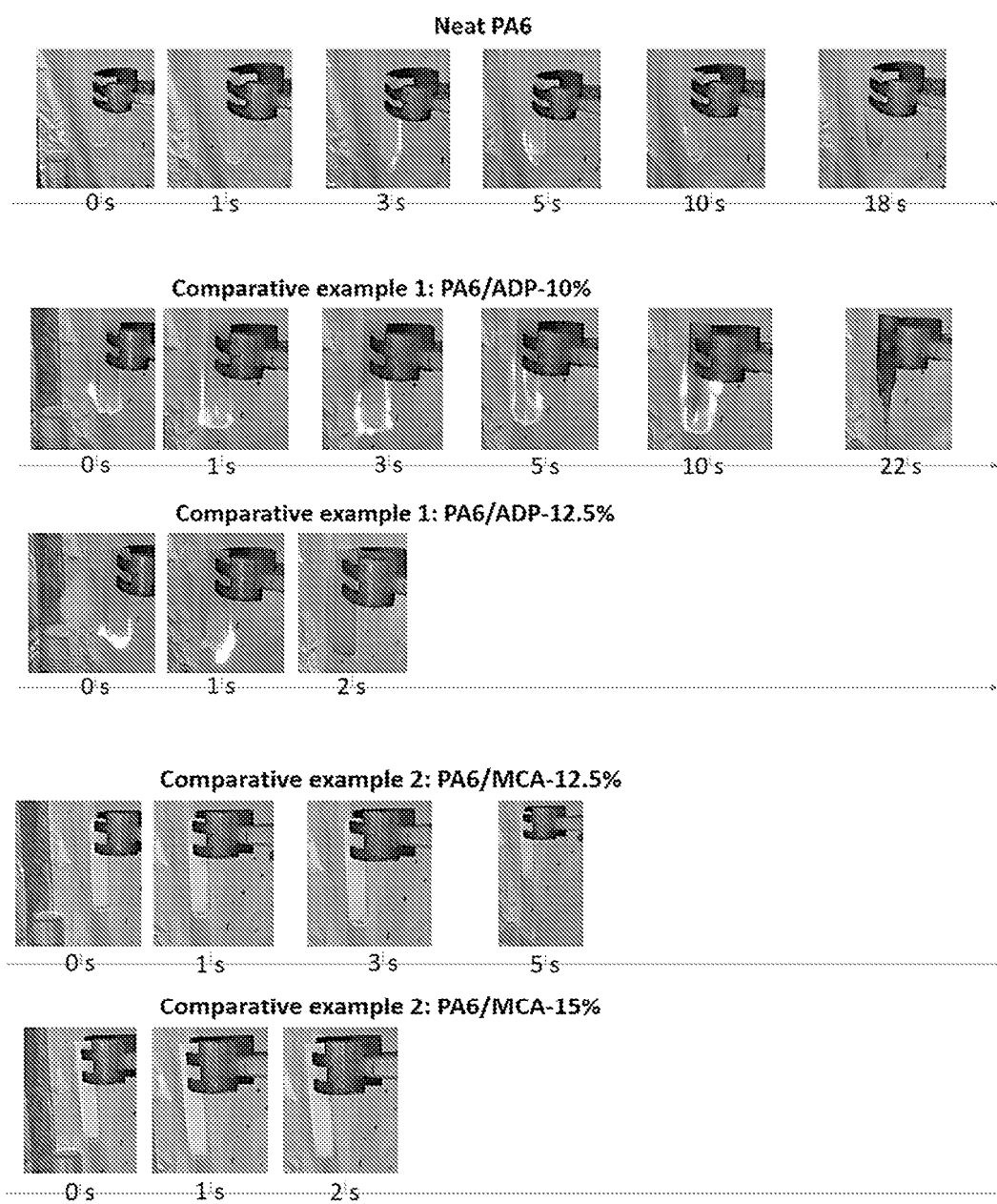
Loading wt%	Neat PA 6	PA6/ADP (Comparative 1)	PA6/Exolit® OP 1314 (Benchmark)	PA6/(DPS+ADP (1/3)) (Example 1)	PA6/(DPS+ADP (1/4)) (Example 2)	PA6/(DPS+PER+ADP (1/0.6/2.4)) (Example 3)	PA6/(DPS+ZB+ADP (1/0.6/2.4)) (Example 4)
6	18 s, eud	---	d	V0 / 2 s	24 s, eud	20 s, eud	25 s, eud
8		---	27 s, eud	V0 / < 1 s	V0 / 3 s	17 s, eud	23 s, eud
10		22 s, eud	57 s	V0 / < 1 s	V0 / < 1 s	V0 / 2 s	V0 / 2 s
12.5		V0 / 2 s	V0 / 3 s	---	V0 / < 1 s	---	---
15		V0 / < 1 s	V0 / < 1 s	---	---	---	---

FIG. 1B

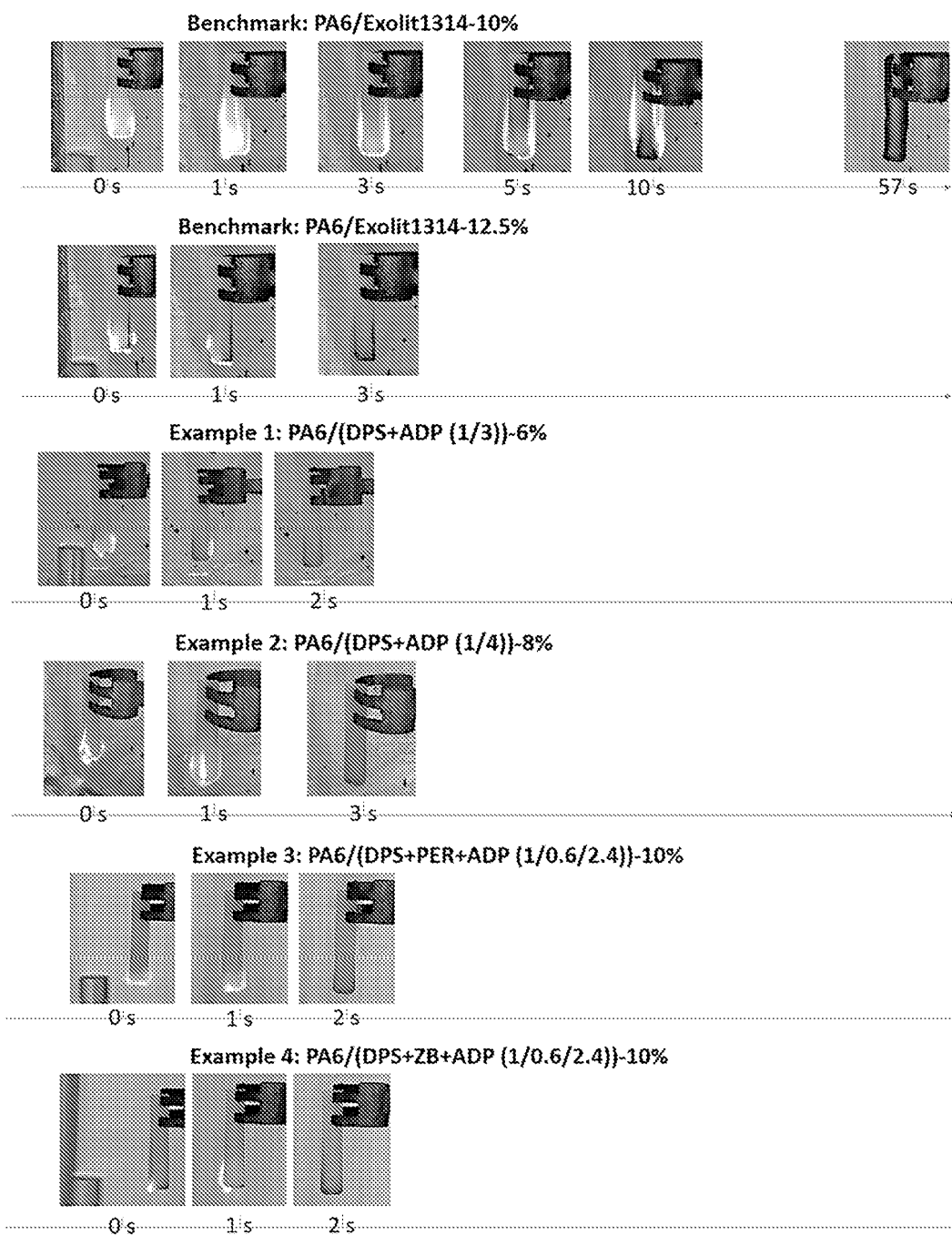
Loading, wt%	Neat PA 6	PA6/MCA (Comparative 2)	PA6/Exolit® OP 1314 (Benchmark)	PA6/(DPS+MCA (1/3)) (Example 5)	PA6/(DPS+MCA (1/4)) (Example 6)	PA6/(DPS+PER+MCA (1/0.8/3.2)) (Example 7)
6	18 s, eud	4 s, eud	d	4 s, eud	9 s, eud	V0 / 1 s
8		4 s, eud	27 s, eud	V0 / < 1 s	V0 / < 1 s	V0 / 1 s
10		4 s, eud	57 s	V0 / < 1 s	V0 / < 1 s	---
12.5		5 s, eud	V0 / 3 s	---	V0 / < 1 s	---
15		V0 / 2 s	V0 / < 1 s	---	---	---

Composites	Tensile Modulus (MPa)	Max Tensile Strength (MPa)	Impact Strength (KJ/m ²)
Neat PA6	3102±204	72.8±1.5	6.42±0.5
PA6/Exolit® OP 1314-12.5% (Benchmark)	2992±55	67.2±1.5	3.8±0.2
PA6/(DPS+ADP (1/4))-8% (Example 2)	3160±8	77.3±2.0	4.4±0.8
PA6/(DPS+MCA (1/4))-8% (Example 6)	3590±295	78.9±1.9	3.8±0.4

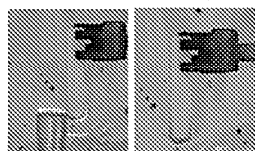
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FIG. 1C

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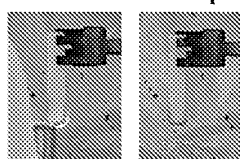
FIG. 1C (continued)

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FIG. 1C (continued)**Example 5: PA6/({DPS+MCA (1/3)})-8%**

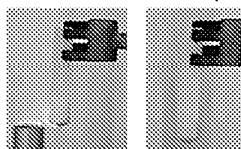
0 s

1 s

Example 6: PA6/({DPS+MCA (1/4)})-8%

0 s

1 s

Example 7: PA6/({DPS+PER+MCA (1/0.8/3.2)})-6%

0 s

1 s

FIG. 2A

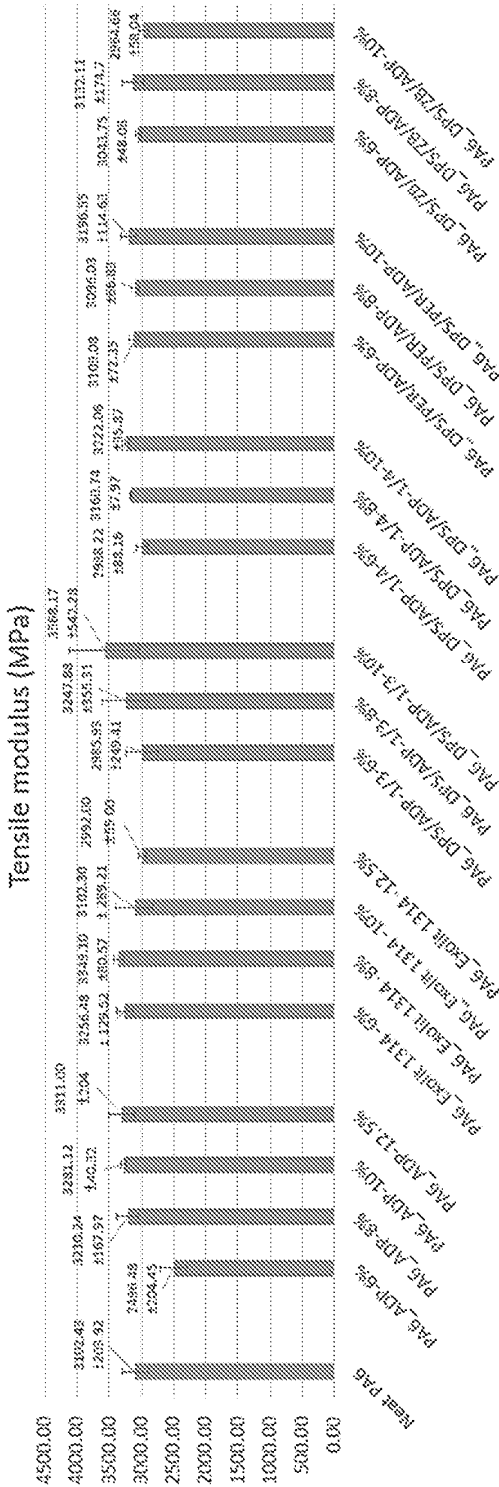


FIG. 2A (Continued)

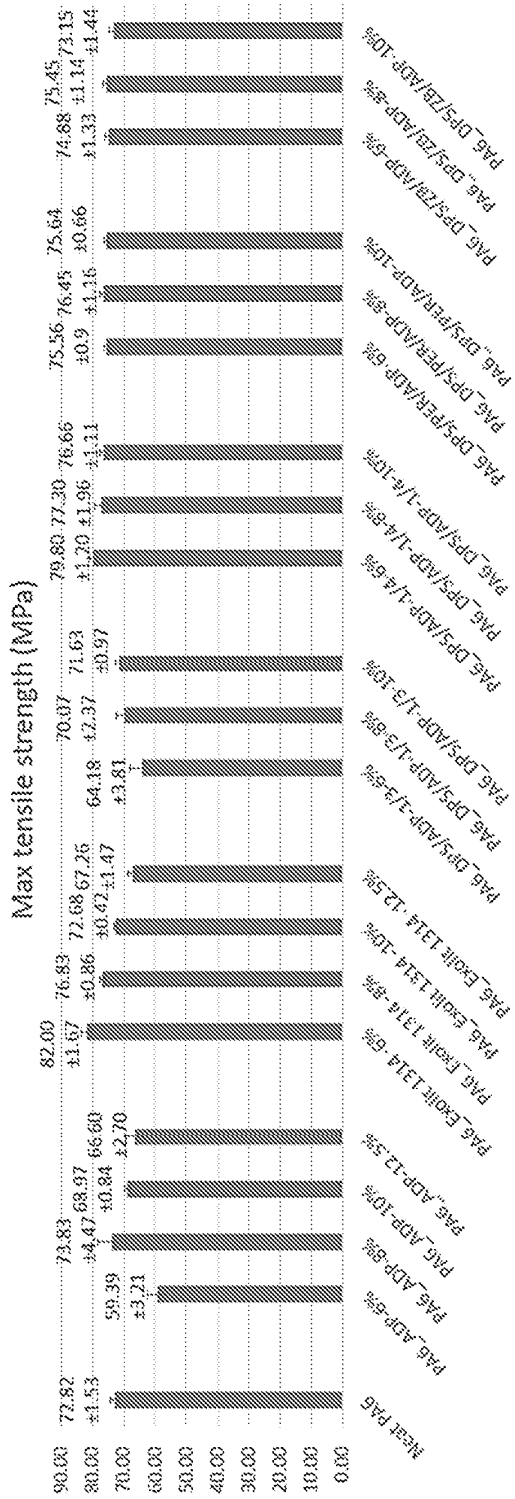
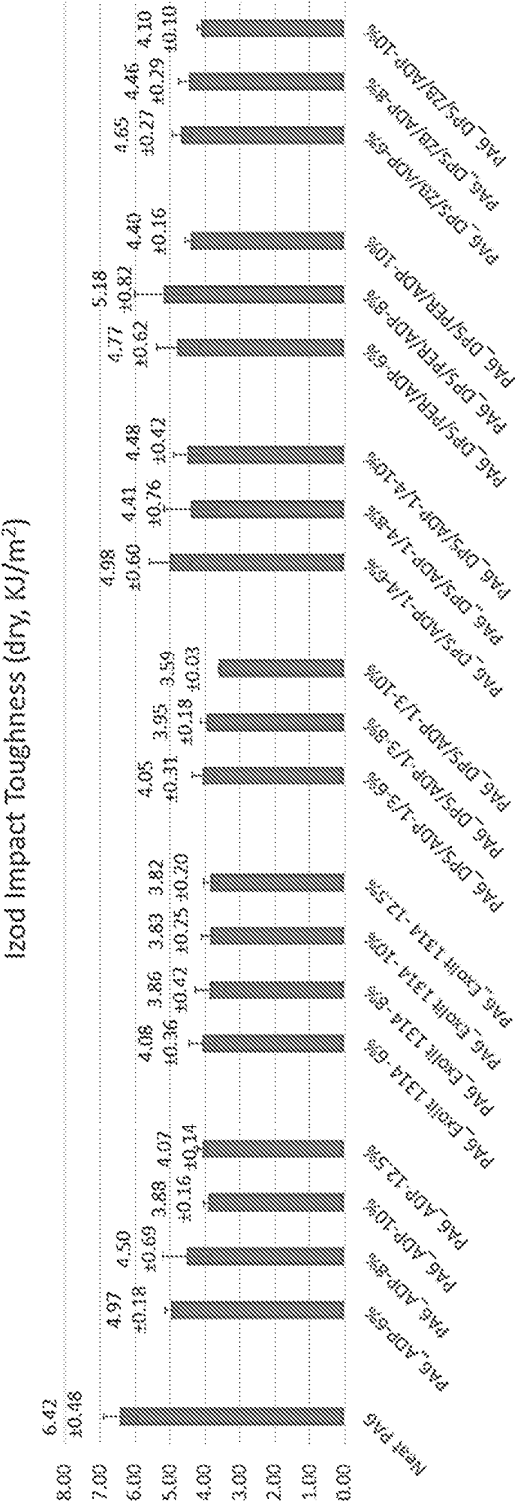


FIG. 2A (Continued)



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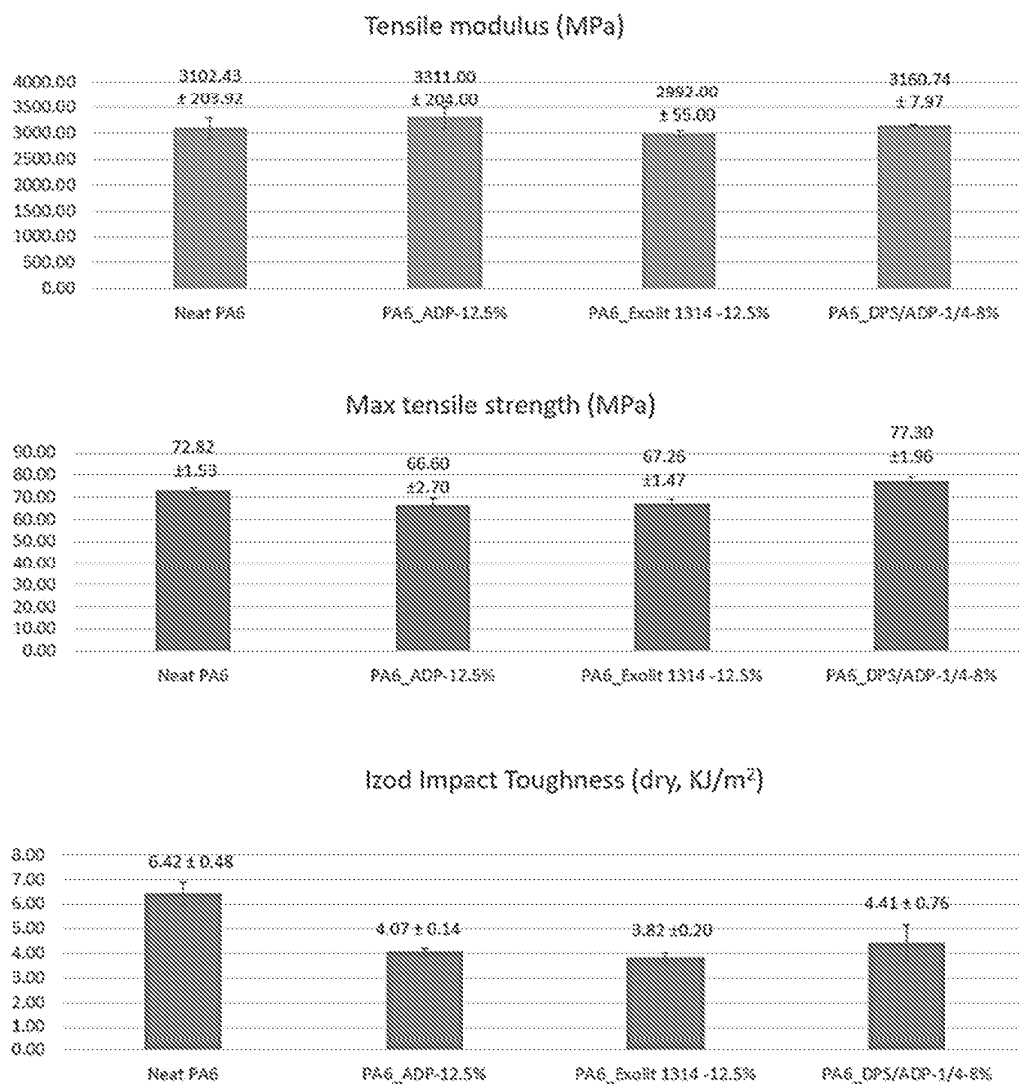
FIG. 2B

FIG. 3A

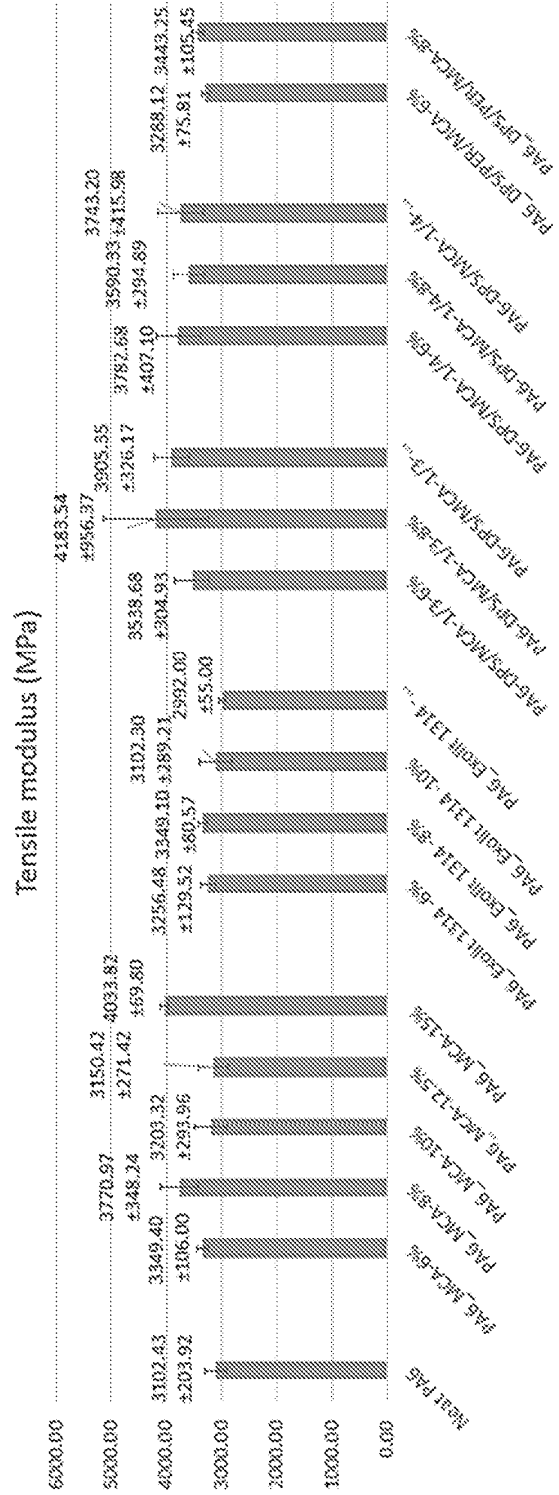


FIG. 3A (Continued)

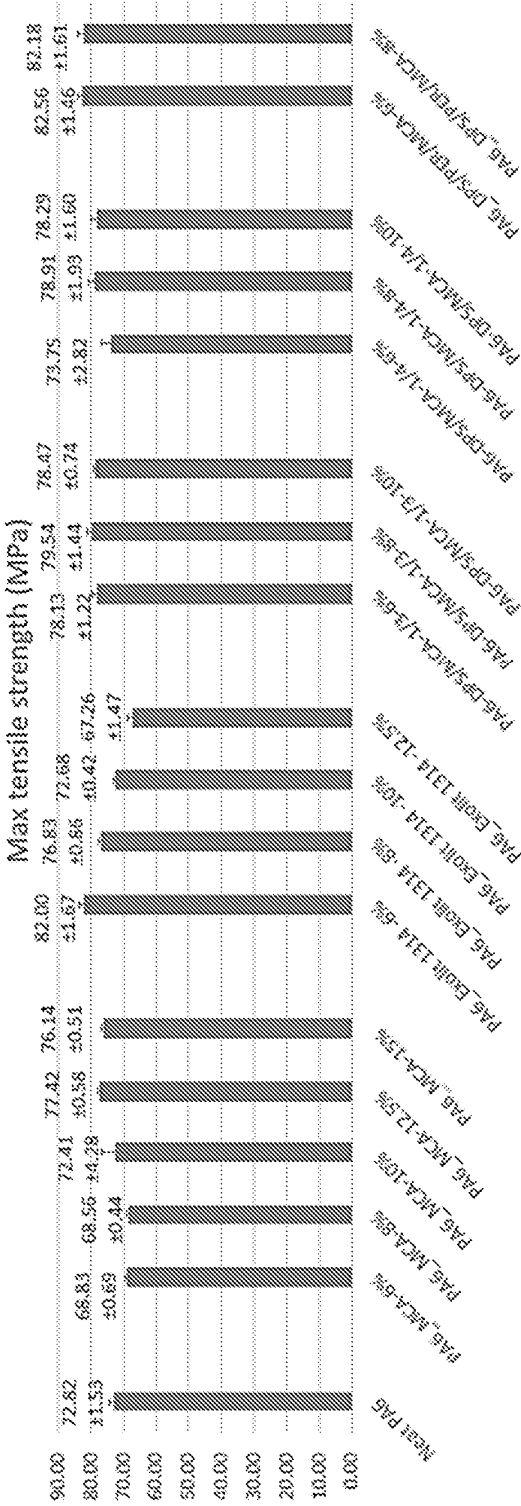
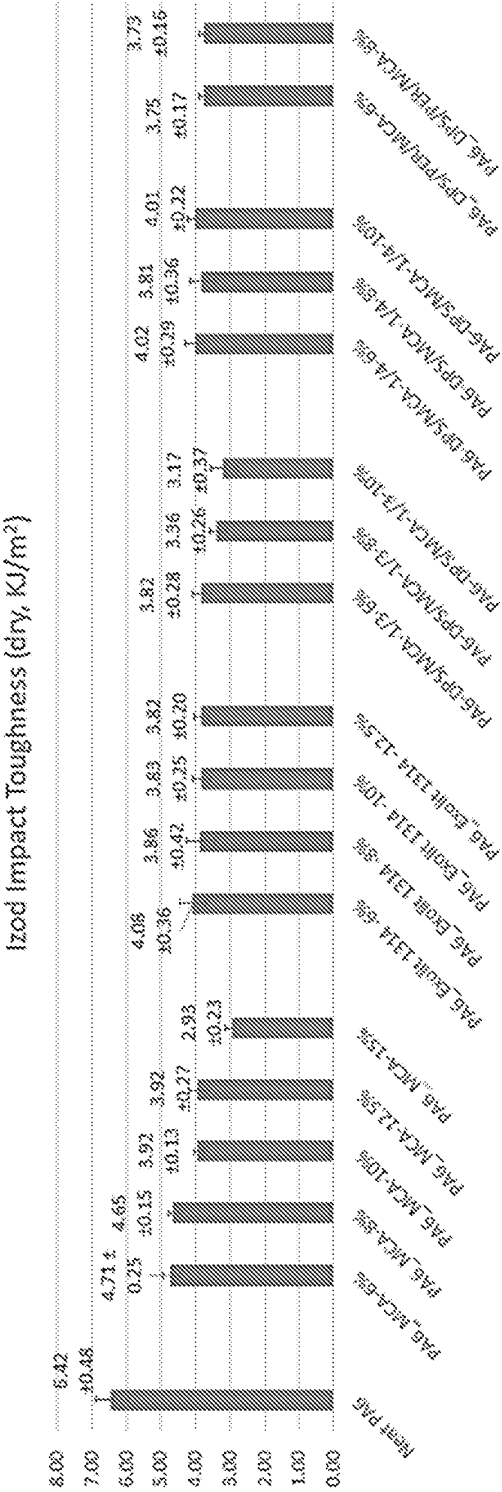
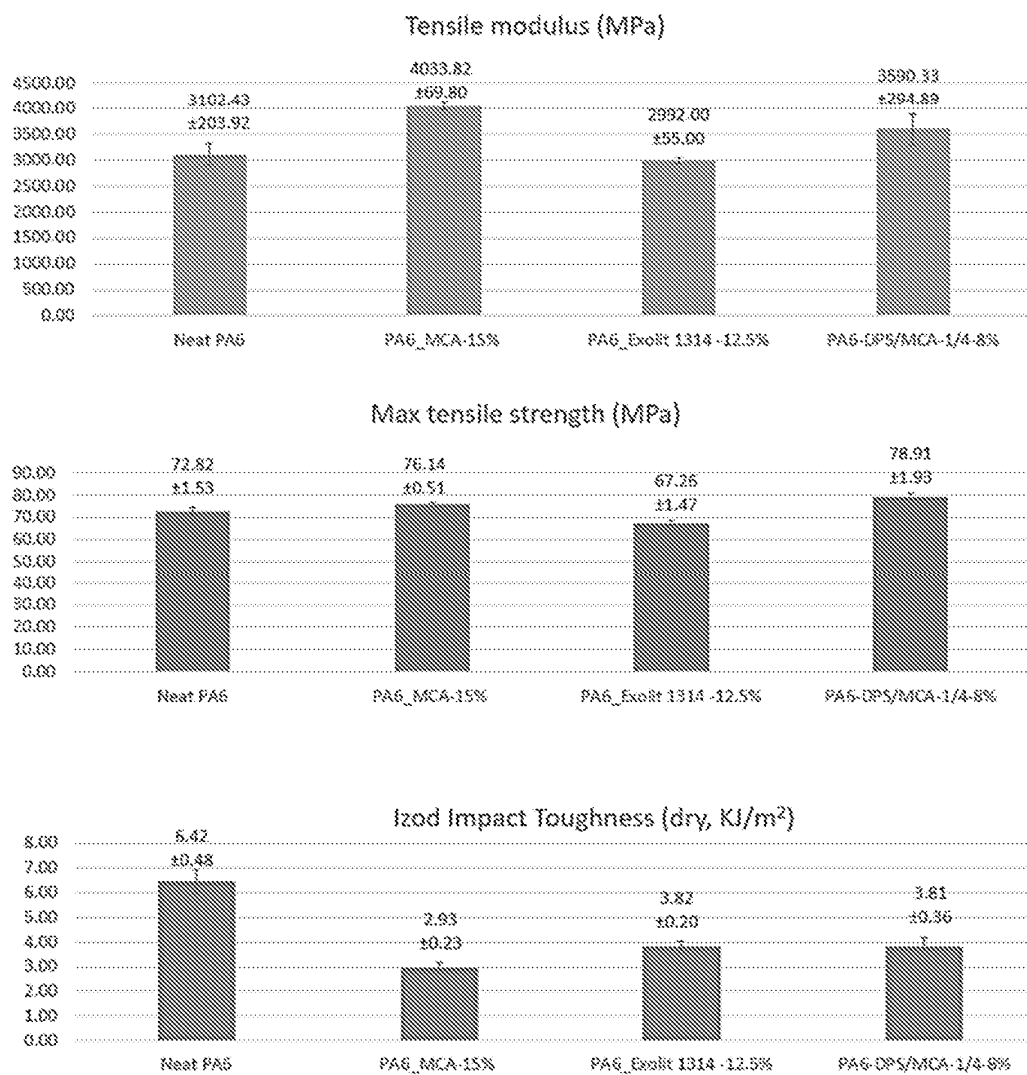


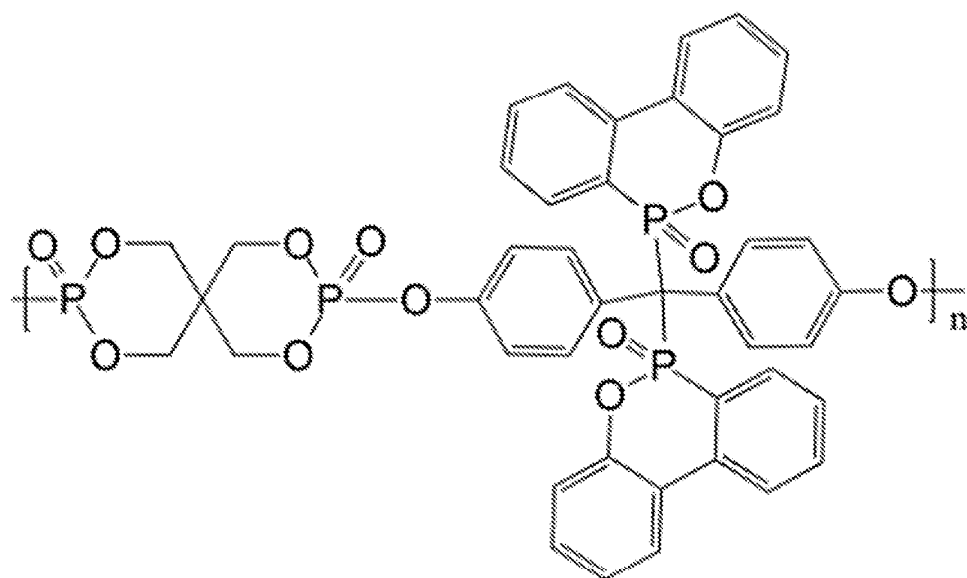
FIG. 3A (Continued)



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FIG. 3B

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FIG. 4

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FIG. 5

