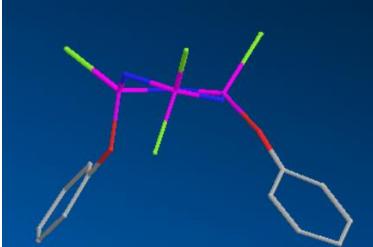
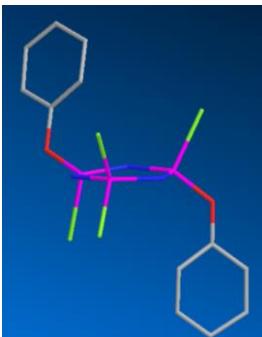
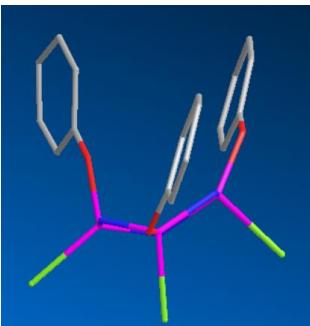
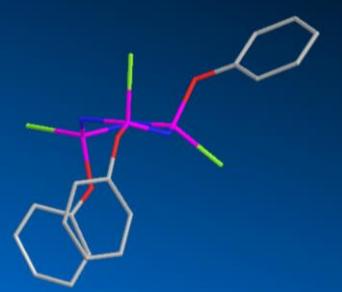
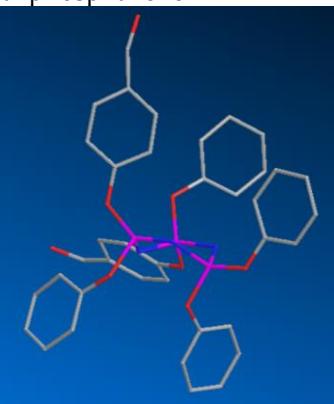
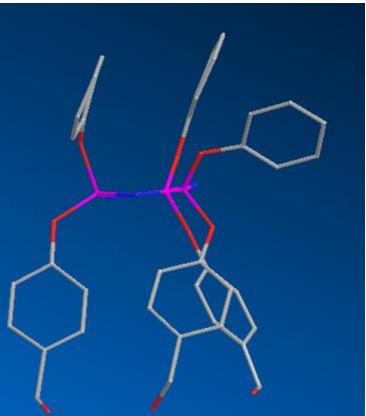
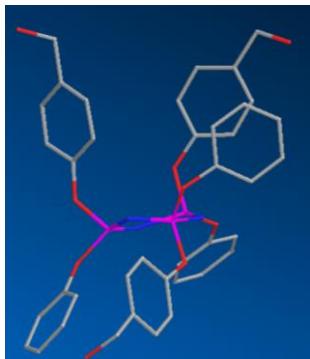
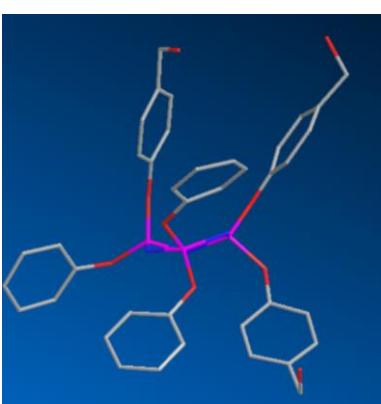
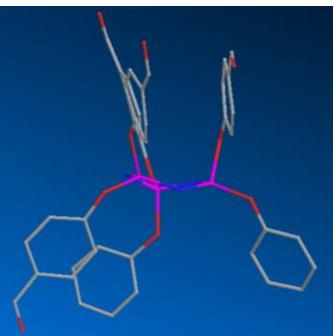
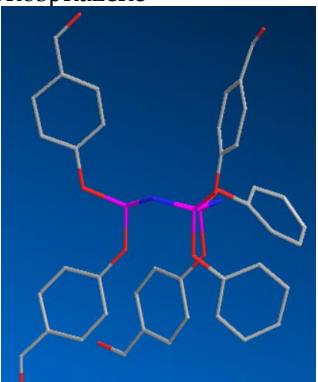
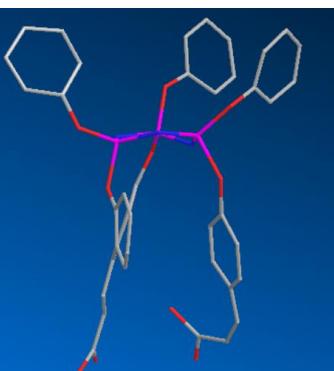
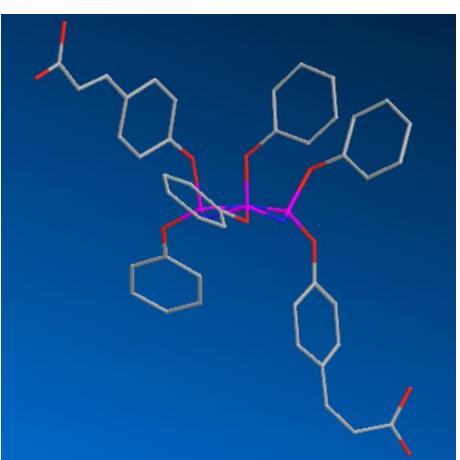


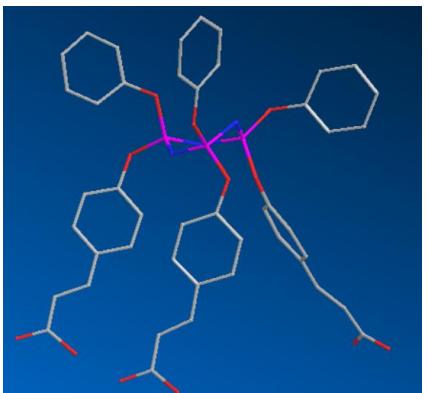
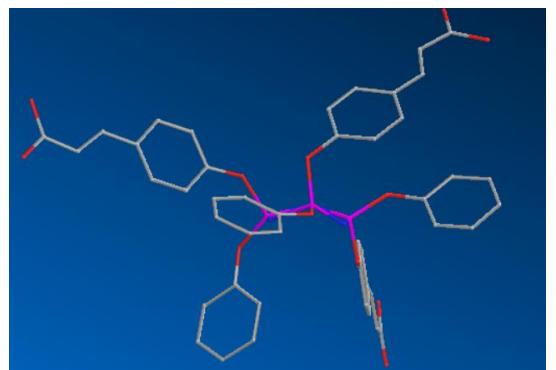
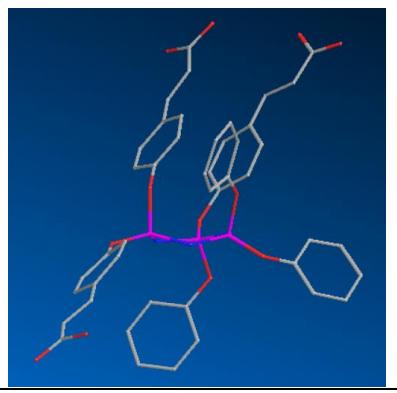
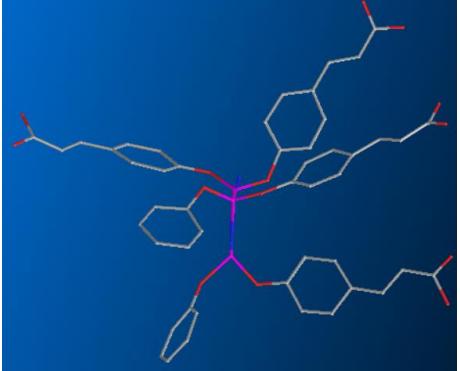
Table S1. Values of the diameters of the sphere described around molecules of di-, tri- and tetra-derivatives contained in CPP, FPPP and CPPP and their mole fractions.

Contained in CPP, FPPP and CPPP derivatives	Mole fractions, % (Approximate content)	Diameter of sphere, nm
<i>Nongem-cis</i> -diphenoxyl-tetrachlorocyclotriphosphazene	3	0.84
		
<i>Nongem-trans</i> -diphenoxyl-tetrachlorocyclotriphosphazene	6	1.10
		
<i>Nongem-cis</i> -trichloro-triphenoxycyclotriphosphazene	9	0.82
		
<i>Nongem-trans</i> -trichloro-triphenoxycyclotriphosphazene	31	1.17
		

<i>Gem</i> -trichloro-triphenoxycyclotriphosphazene	31	0.91
<i>Nongem-cis</i> -dichloro-tetraphenoxycyclotriphosphazene	7	1.09
<i>Nongem-trans</i> -dichloro-tetraphenoxycyclotriphosphazene	13	1.15
<i>Nongem-cis</i> -bis[4-formylphenoxy]-tetraphenoxycyclotriphosphazene	7	1.32

<i>Nongem-trans</i> -bis[4-formylphenoxy]-tetraphenoxycyclotriphosphazene	13	1.38
		
<i>Nongem-cis</i> -tris[4-formylphenoxy]-triphenoxycyclotriphosphazene	9	1.33
		
<i>Nongem-trans</i> -tris[<i>p</i> -formylphenoxy]-triphenoxycyclotriphosphazene	31	1.38
		
<i>Gem</i> -tris[4-formylphenoxy]-triphenoxycyclotriphosphazene	31	1.46
		

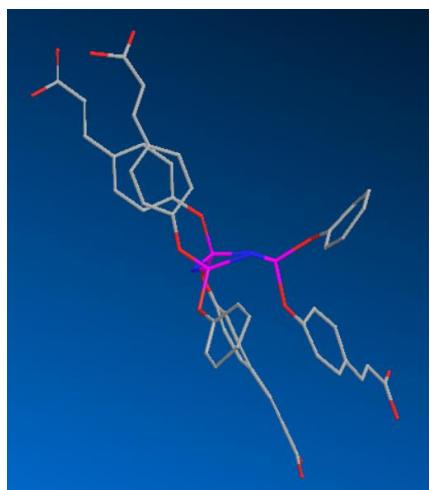
<i>Nongem-cis</i> -tetrakis[4-formylphenoxy]-diphenoxycyclotriphosphazene	3	1.33
		
<i>Nongem-trans</i> -tetrakis[4-formylphenoxy]-diphenoxycyclotriphosphazene	6	1.67
		
<i>Nongem-cis</i> -bis[4-(β -carboxyethenyl)phenoxy]-tetraphenoxycyclotriphosphazene	7	1.34
		
<i>Nongem-trans</i> -bis[4-(β -carboxyethenyl)phenoxy]-tetraphenoxycyclotriphosphazene	13	1.98
		

<i>Nongem-cis</i> -tris[4-(β -carboxyethenyl)phenoxy]-triphenoxycyclotriphosphazene	9	1.68
		
<i>Nongem-trans</i> -tris[4-(β -carboxyethenyl)phenoxy]-triphenoxycyclotriphosphazene	31	1.90
		
<i>Gem</i> -tris[4-(β -carboxyethenyl)phenoxy]-triphenoxycyclotriphosphazene	31	1.91
		
<i>Nongem-cis</i> -tetrakis[4-(β -carboxyethenyl)phenoxy]-diphenoxycyclotriphosphazene	3	1.93
		

Nongem-trans-tetrakis[4-(β -carboxyethenyl)phenoxy]-diphenoxycyclotriphosphazene

6

1.89



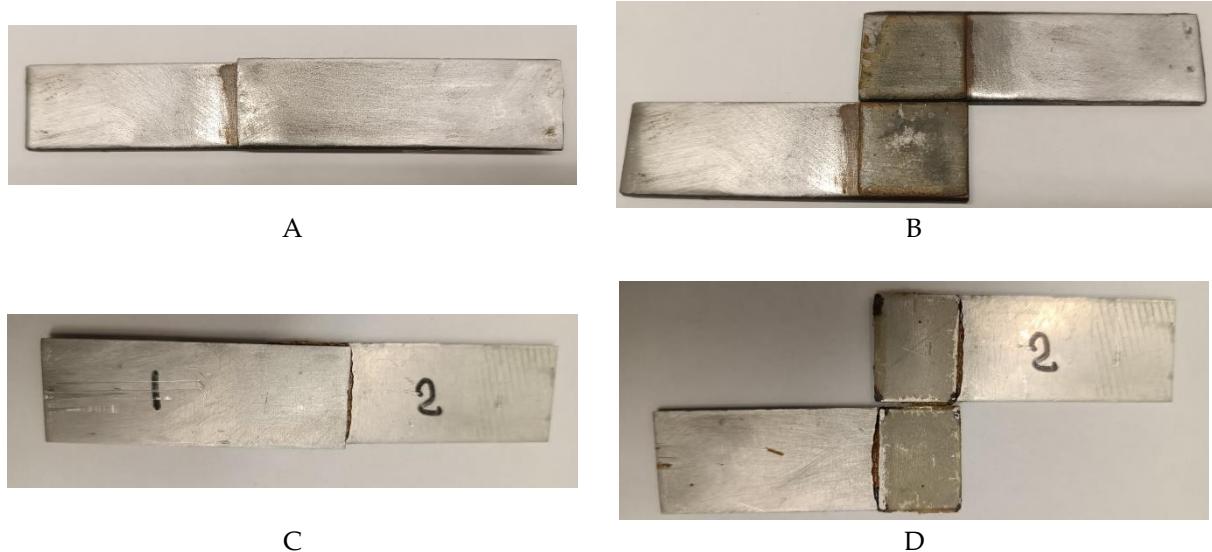


Figure S1. Testing samples for adhesion strength: glued plates of steel (A) and aluminum (C); plates after testing in steel (B) and aluminum (D).

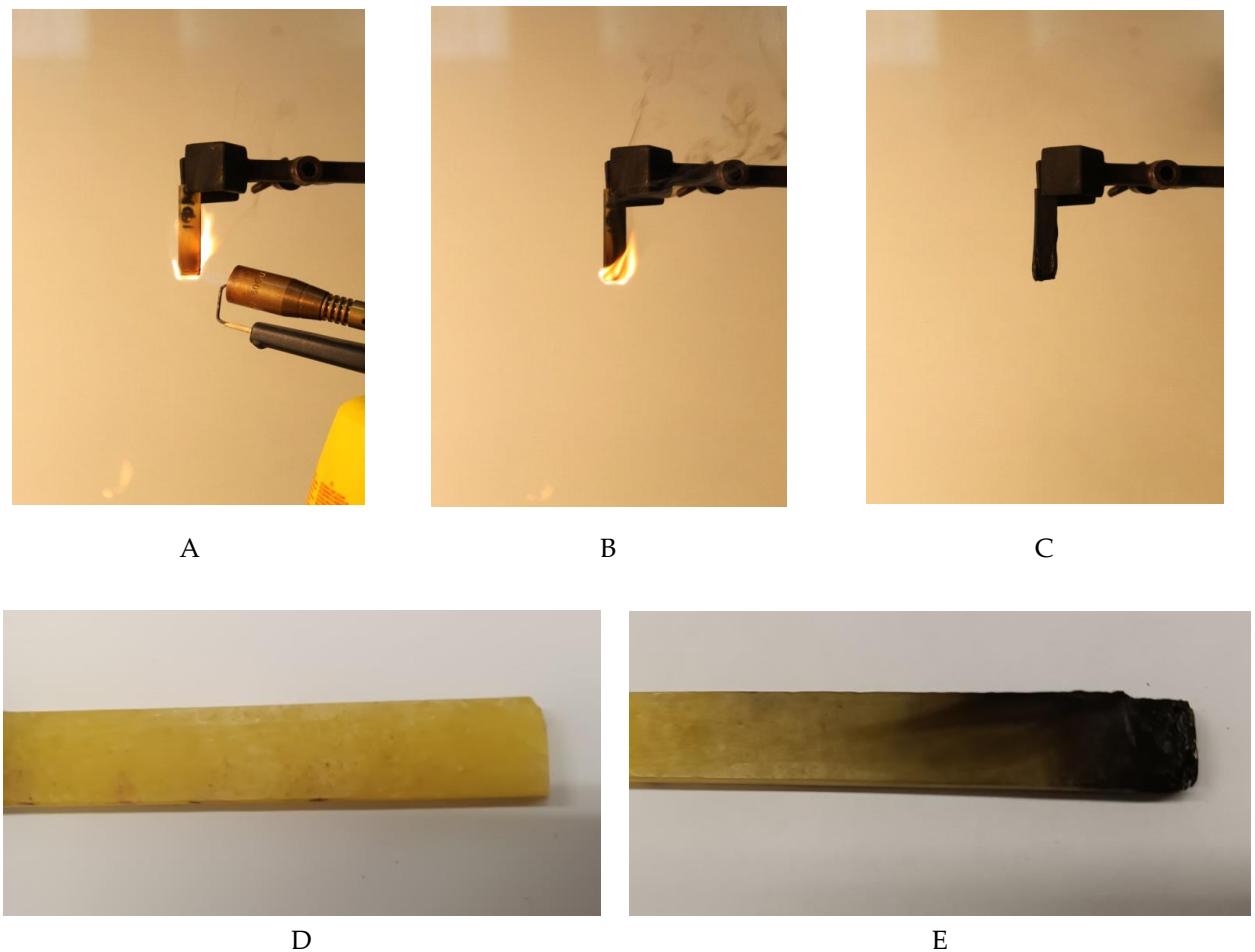


Figure S2. Testing samples for combustion resistance: A – bringing a flame to the sample; B – combustion process; C – self-extinguishing; D – original sample; E – sample after combustion.