

Table 5. Stability of original and modified PETPH in aggressive media

Material	Water absorption during 24 hours, %	Sample mass loss after 30 minutes exposure to aggressive medium, %				
		Tap water (200 °C)	5 % hydrochloric acid (120 °C)	10 % sodium hydroxide (120 °C)	Sodium hypochlorite (80 °C)	Benzene (80 °C)
<i>Crystal PETPH</i>						
PETPH	0.3	0.7	4.2	5.6	4.1	0.9
PETPH + 2.0 % FU	0.1	0.4	3.5	3.8	2.7	0.3
<i>Amorphous PETPH</i>						
PETPH	2.1	6.8	5.8	8.3	8.6	3.0
PETPH+ 2.0 % FU	0.5	1.1	4.7	5.0	5.2	0.5