

**Table 6.** Quality indices for original and modified crystal PETPH

Name of quality index		Norm according TU 2226-008- 39989731-2009	PETPH	PETPH + 2,0 % FU
1	Appearance	White granules without foreign inclusions		Yellowish granules without foreign inclusions
2	Characteristic viscosity, dl/g, within range including	0.78-0.82	0.79	0.80
3	Mass of 100 granules, g, no more than	2.0	1.7	1.7
4	Melting temperature, °C, within range including	243-249	246	247
5	Colour: - value L*, no less than - value b*, no more than	82 1	86 0	85 8.8
6	Part by mass of acetaldehyde, ppm <sup>-1</sup> , no more than	1.0	0.7	0.3
7	Part by mole of carboxyl groups, mmole/kg, no more than	40	30	27.6
8	Part by mass of humidity, %, no more than	0.3	< 0.1	< 0.05
9	Hygienic indices: - odor of water extract, ball, no more than - flavor водной вытяжки - change in colour and transparency of water extract	1 Not admitted  Not admitted	< 1 Absent  Absent	1 Absent  Absent