

Table 1.

Process parameters and properties of fluoropolymers produced in the presence of fluorinated initiators

Initiator [ROCH ₂ CH ₂ OC(O)O] ₂	Monomer (co- monomers)	Polymeri- zation temperat ure °C	Polymeriz ation rate, g/h·l	Mechanical properties		Flow index, g/10min	Sample mass loss at heating %	Tempera ture interval, %	Number of pectous inclusions	
				Tensile strength, MPa	Percent elongati on, %				0.2-0.5 mcm	0.5-1.0 mcm
1	2	3	4	5	6	7	8	9	10	11
F(CF₂)₆CH₂-	TFE+HFP	60	49,6	22,0	340	7,7	0,13 ¹	60	0-3	0-1,8
PFCP	TFE+HFP	50	55,0	24,0	380	8,0	0,15 ¹	30	7-13	0,5-2,0
H(CF₂)₂CH₂-	Vinyl- Fluoride	60	10,0	52,0	120	2,0	0,65 ²	30	-	-

PFCP	Vinyl-fluoride	50	3,0	40,0	60	3,6	0,72 ²	10	-	-
H(CF₂)₂CH₂-	Vinylidene-fluoride	45	52	44,0	100	5,3	0,18 ³	40	-	-
PFCP	Vinylidene-fluoride	45	11	42,0	90	6,2	0,21 ³	20	-	-

Note. Thermal stability was estimated by the sample mass loss, %

- 1) Temperature 300 °C during 3 hours,
- 2) Temperature 225 °C during 5 hours,
- 3) Temperature 275 °C during 5 hours.