**Electronic supplementary information**

**POLY(HEXAFLUOROISOPROPYLACRYLATE/  
DECYL)METHYLSILOXANE COPOLYMER: A NEW  
MATERIAL WITH THE LOW SURFACE ENERGY**

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**Figure S1.** 1H NMR spectra of PMHS and F6–C10.

**Peak assignments:** a signal at 5.97 ppm corresponds to the H2C= group protons of the initial F6*i*Pr-Acr, a signal at 5.60 ppm refers to the proton bound with the CF3 groups of F6*i*Pr-Acr, a signal at 4.90 ppm corresponds to the H2C= protons from unreacted 1-decene.

The –CH2C(O)O– protons are observed at 2.51 ppm. A signal at 1.46 ppm is characteristic of the –CH2–unit of the side hydrocarbon moiety. A peak in the region of 1.08 ppm corresponds to the terminal methyl group protons of decene. A peak at 0.72 ppm corresponds to the Si–CH2– protons. A signal in the region of 0.45 ppm corresponds to the Si-Me protons, and a signal in the region of 0.29 ppm—to the protons of the terminal methyl groups bound to the silicon atom (SiMe3).



**Figure S2.** Synthesis of copolymer F6–C10.

**Table S1.** Water contact angles and the surface energy of C10 and F6–C10

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Polymer | Water contact angle, ° | Surface energy, mJ/m2 | | |
| dispersion | polar | total |
| C10 | 101 | 24 | 1.5 | 25.5 |
| F6–C10 | 113 | 16 | 0.5 | 16.5 |