

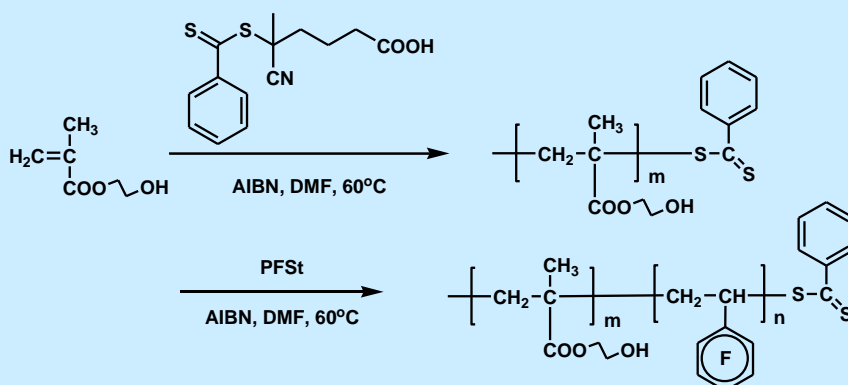
2,3,4,5,6-Pentafluorostyrene (abb. ; PFSt)

$C_6F_5CH=CH_2$

| | |
|--------------------------|--|
| Purity | 98% |
| CAS Number | 653-34-9 |
| Molecular Formula | C ₈ H ₃ F ₅ |
| Molecular Weight | 194.1 |

1. Preparation of non-perfluoroalkyl water and oil repellent based on RAFT block copolymerization of pentafluorostyrene and hydroxyethyl methacrylate (HEMA). HMDI-crosslinked block copolymers show better water and solvent contact angles than PFSt homopolymers in dip coating on polyamide fabrics.

Application



Advancing contact angle on polyamide cloth

| | [OH]/[HMD] | H ₂ O | CH ₂ I ₂ |
|-----------------------|------------|------------------|--------------------------------|
| Poly-(PFSt)-CTA | - | 102° | 74° |
| Poly-(HEMA)-CTA | - | absorbed | absorbed |
| Block(HEMA)63(PFSt)37 | 236/1 | 125° | 101° |
| PTFE | - | 109° | 80° |

Fluorine Notes, 2019, Vol.2(123) by K.E.Chekurov et al.

Fluorine Notes, 2021, Vol.2(135), by K.E.Chekurov et al.

Properties:

| | |
|--------------------------|---------|
| Appearance | Liquid |
| Boiling point, °C | 140-141 |
| Flash point, °C | 34 |

Capacity: 50kg/month

Packing: PE Jerry can

UN, PG: -