

Support Information

**Realizing simultaneous reinforcement and toughening in
polypropylene based on polypropylene/elastomer via controlling
crystalline structure and dispersed phase morphology**

Jianfeng Wang, Hong Wu*, Shaoyun Guo*

The State Key Laboratory of Polymer Materials Engineering, Polymer Research

Institute of Sichuan University, Chengdu 610065, China

Corresponding Author

* E-mail: wh@scu.edu.cn. Fax: 86-028-85466077.

* E-mail: sguo@scu.edu.cn. Fax: 86-028-85405135.

Table S1 Mechanical properties of C-0, C-20, M-0 and M-6

Samples	Yield strength (Mpa)	Notched Impact Strength (kJ/m ²)	Elongation at break (%)
C-0	36.4±2.7	9.0±0.8	359±28
C-20	25.5±1.9	50.6±4.3	697±25
M-0	29.3±2.0	44.8±3.9	518±32
M-6	49.3±2.9	53.1±4.2	240±19

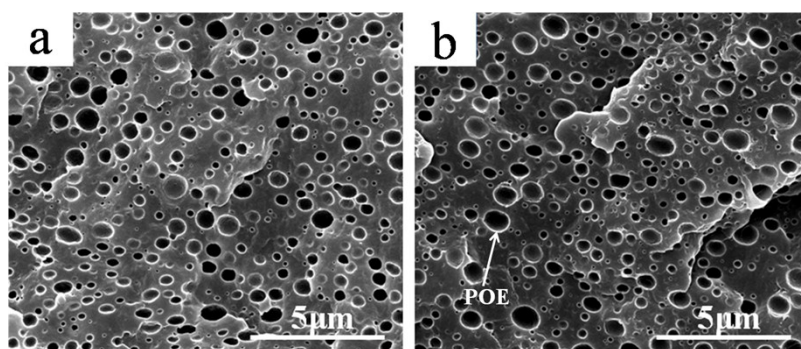


Fig.S1. SEM images of heptanes etched surfaces of C-20, a): viewed along melt flowing direction; b): viewed along the planar direction.