

Supplementary File

Mechanical property and microcellular foamability of iPP/PA11/PP-g-MAH Blends

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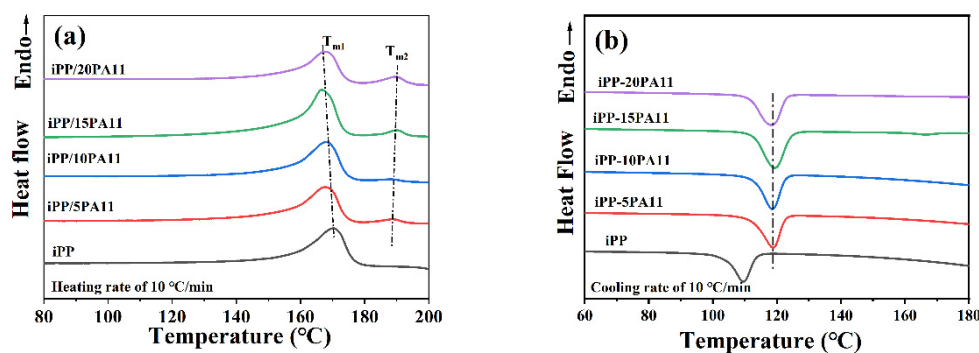


Figure S1. DSC heating graphs (a) and cooling graphs (b) of iPP and iPP/PA11 blends.

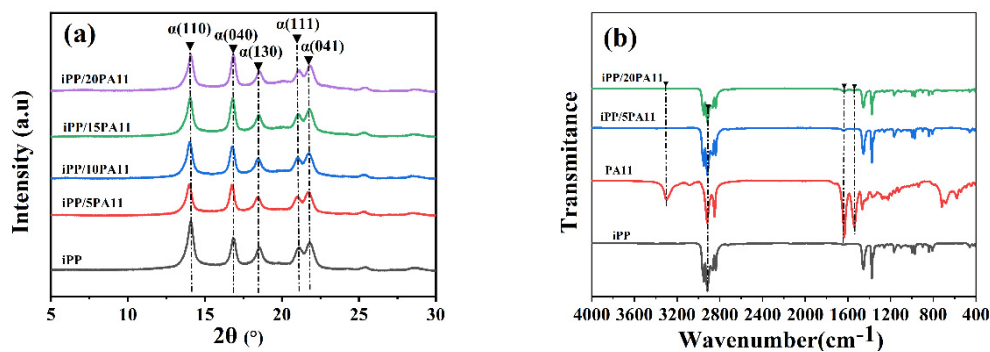


Figure S2. X-Ray graphs (a) and FTIR spectrums (b) of iPP and iPP/PA11 blends.

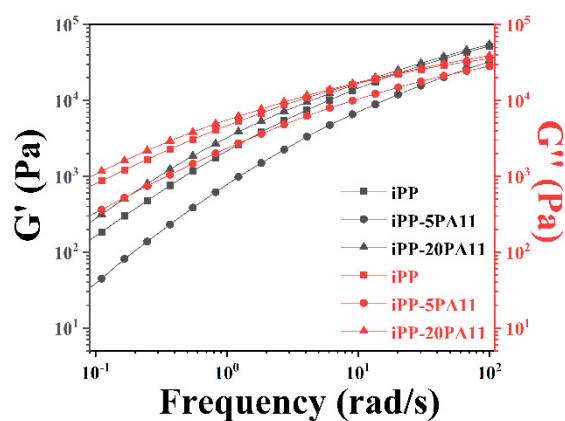


Figure S3. Rheological properties ($G' \times G''$) of iPP/PA11 blends in Figure 4, at different scanning frequencies.

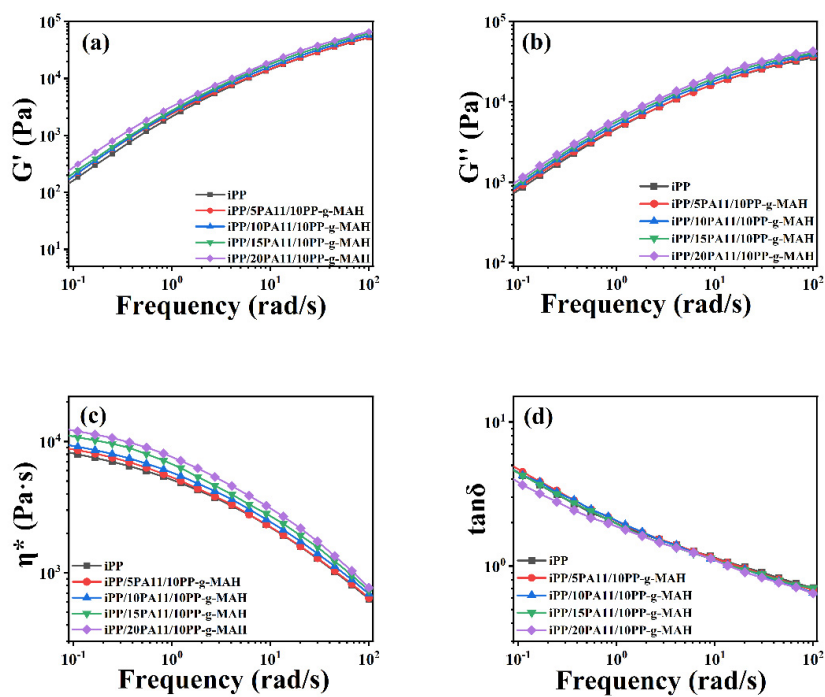


Figure S4. Rheological properties of iPP and iPP/PA11/10PP-g-MAH blends at different frequencies

(a) storage modulus G' ; (b) viscous modulus G'' ; (c) complex viscosity η^* ; (d) $\tan \delta$.

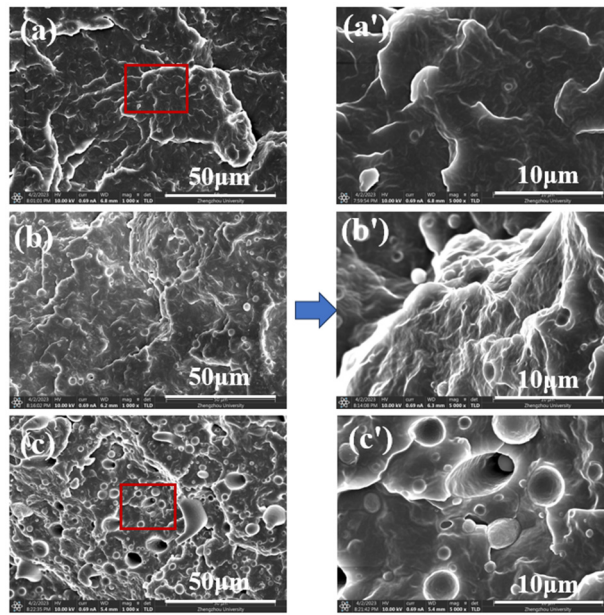


Figure S5. SEM pictures of iPP/PA11 with different PA11 content: (a) pure iPP; (b) iPP/5PA11; (c) iPP/20PA11; (a') to (c') are their magnified pictures within the red boxes.

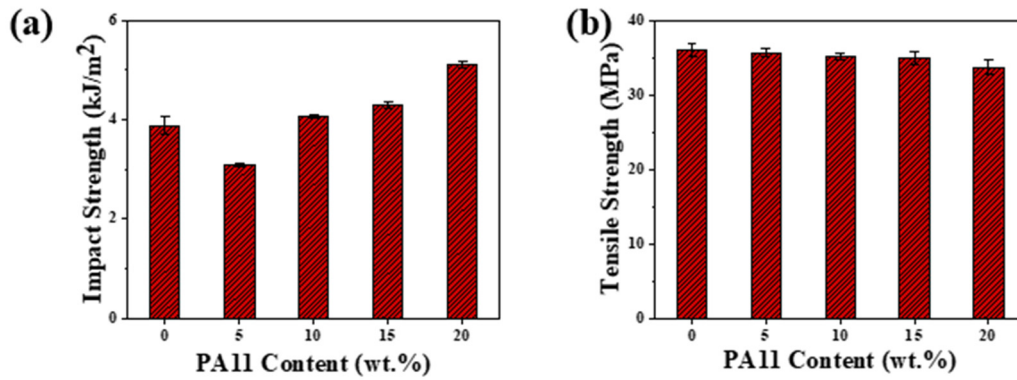


Figure S6. Impact strength (a) and tensile strength (b) of iPP/PA11 blends.

Table S1. Elongation at break of iPP/PA11 blends with different PA11 content.

PA11 content /wt.%	Elongation at break /%
0	202.41
5	150.88
10	154.89
15	116.59
20	69.01