

Crystallization: The incorporation of clay particles increased the overall rate kinetic constant due to the enhancement of the primary nucleation. On the contrary, the spherulitic growth rate was slightly disfavored by the clay.

 Sample
 (min*)
 (min*)

 Neat polymer
 0.048
 2.40 10-5
 3.38

 composite with C20A
 0.174
 3.40 10-3
 3.01

 composite with C30B
 0.149
 3.28 10-3
 2.81

(min-1)

0.043

0.153

0.131

t - t₀ (min)