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Time-Temperature-Water Content equivalence on dynamic mechanical response of polyamide 6,6

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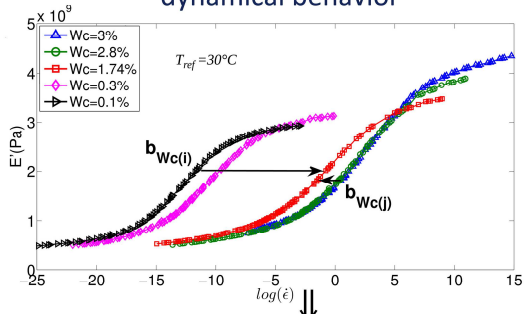
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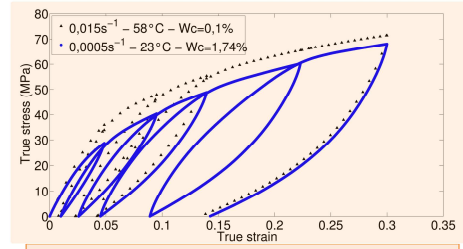
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From Master curves for the storage modulus E' of Pa66
**New Time-Temperature-Water content equivalence on
 dynamical behavior**

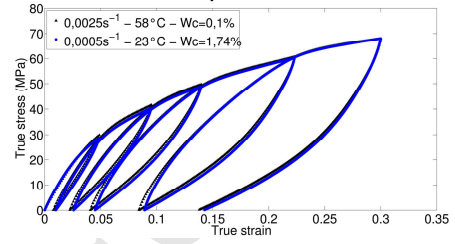


$$\dot{\epsilon}(Wc) = b_{Wc/Wc_{ref}} \dot{\epsilon}(Wc_{ref})$$

$$\text{with } \log(b_{Wc/Wc_{ref}}) = -\frac{D_1 (Wc - Wc_{ref})}{D_2 + Wc - Wc_{ref}}$$



$$\dot{\epsilon}(T_2, Wc_{ref}) = \frac{b_{(Wc_1/Wc_{ref}, T_{ref})} \cdot a_{(T_1/T_{ref}, Wc_1)}}{a_{(T_2/T_{ref}, Wc_{ref})}} \dot{\epsilon}(T_1, Wc_1)$$



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