

## TPX™ as a resin modifier for thermoplastics such as PP, PET, TPO and PA

TPX™ (PMP: Polymethyl pentene, semi crystalline transparent polymer) has properties that makes it applicable as an additive for resin modification. These properties include good releasability - comparable to fluorine resins - excellent heat resistance, low density, low dielectric properties and improving the processibility. The possible final application could be in films or solid components as well.

## Benefits of using TPX™



### Heat resistance

TPX™ has a melting point of 220 °C to 240 °C and can be used in high temperature production processes with low stress applied.



### Releasability

TPX™ has excellent releasability which can be utilized as a processing aid, and antifouling properties.



### Light weight

TPX™ is the lightest material (0,83 g/cm³) among general plastics and helps to reduce product weight.

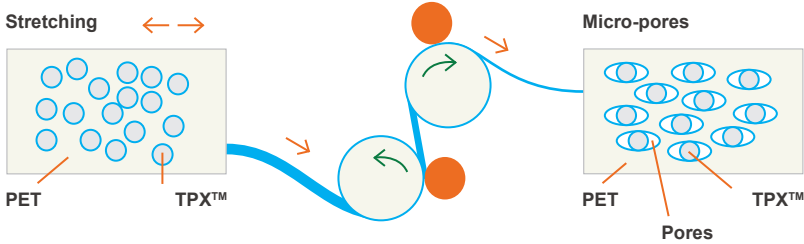


### Light blocking

When TPX™ is added to other thermoplastic resins, it can help achieve a light blocking effect after stretching.

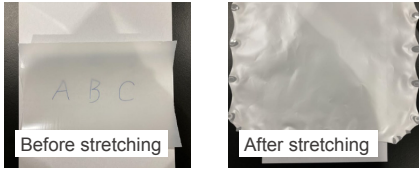


## TPX™ as a modifier in film applications (PET or hPP)



Micro pores created in the films improves the printability and change the optical properties.

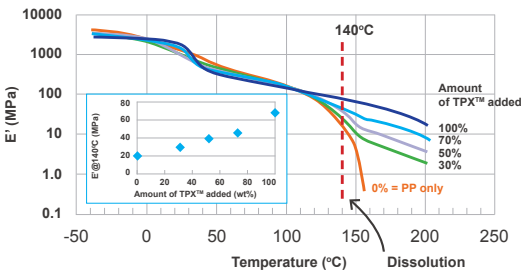
## Light blocking effect



TPX™ has created a light blocking effect.

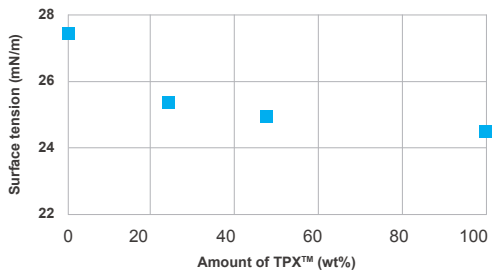
## Heat resistance

Adding 30% of TPX™ to h-PP improves the heat stability at high temperatures in film applications.



## Surface modification

The surface tension of h-PP can be modified by the addition of TPX™.



When adding 50% or more TPX™, to improve the compatibility and dispersibility of TPX™ in h-PP, its recommended to use Absortomer™ as a compatibilizer (Absortomer™ is a Polyolefin elastomer)

"The figures are just representative values, but not guaranteed values."

