

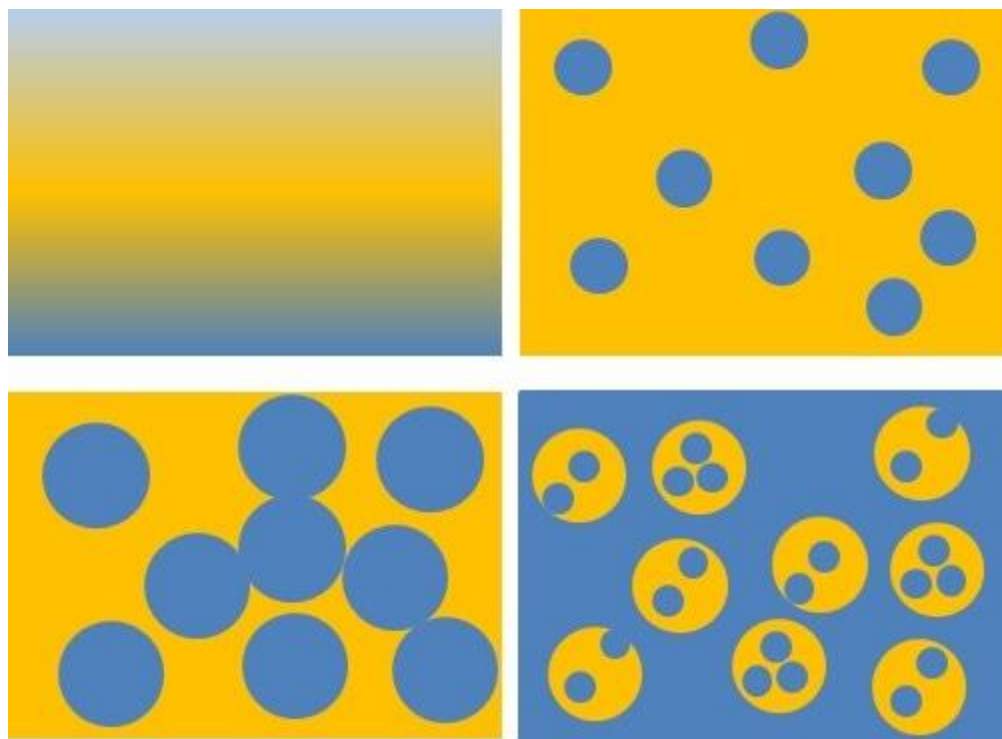
Anyagtudomány

BMEGEMTMK02, 4 krp (2+0+1/v)

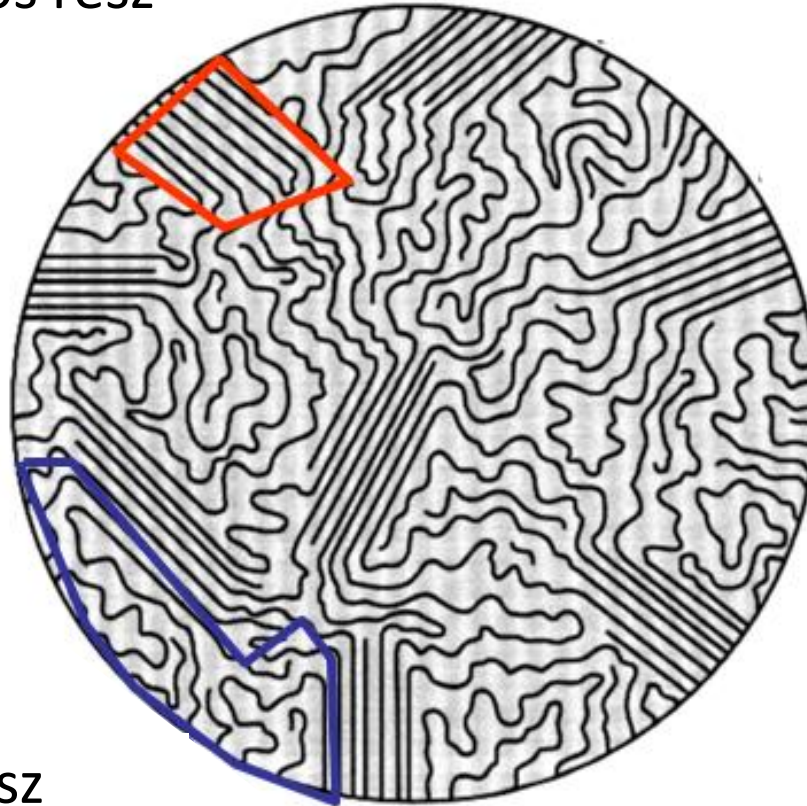
XI-XII. előadás: Többkomponensű polimer rendszerek, polimerek bomlása

Előadó:
Dr. Mészáros László
Egyetemi docens

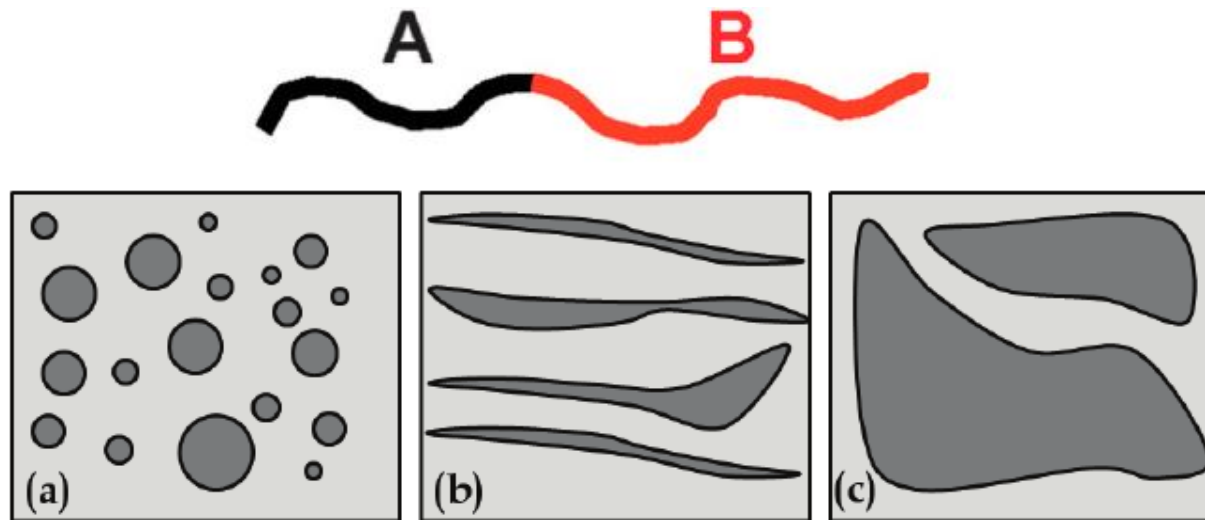
Elérhetőség:
T. ép.: 307.
meszaros@pt.bme.hu



Kristályos rész



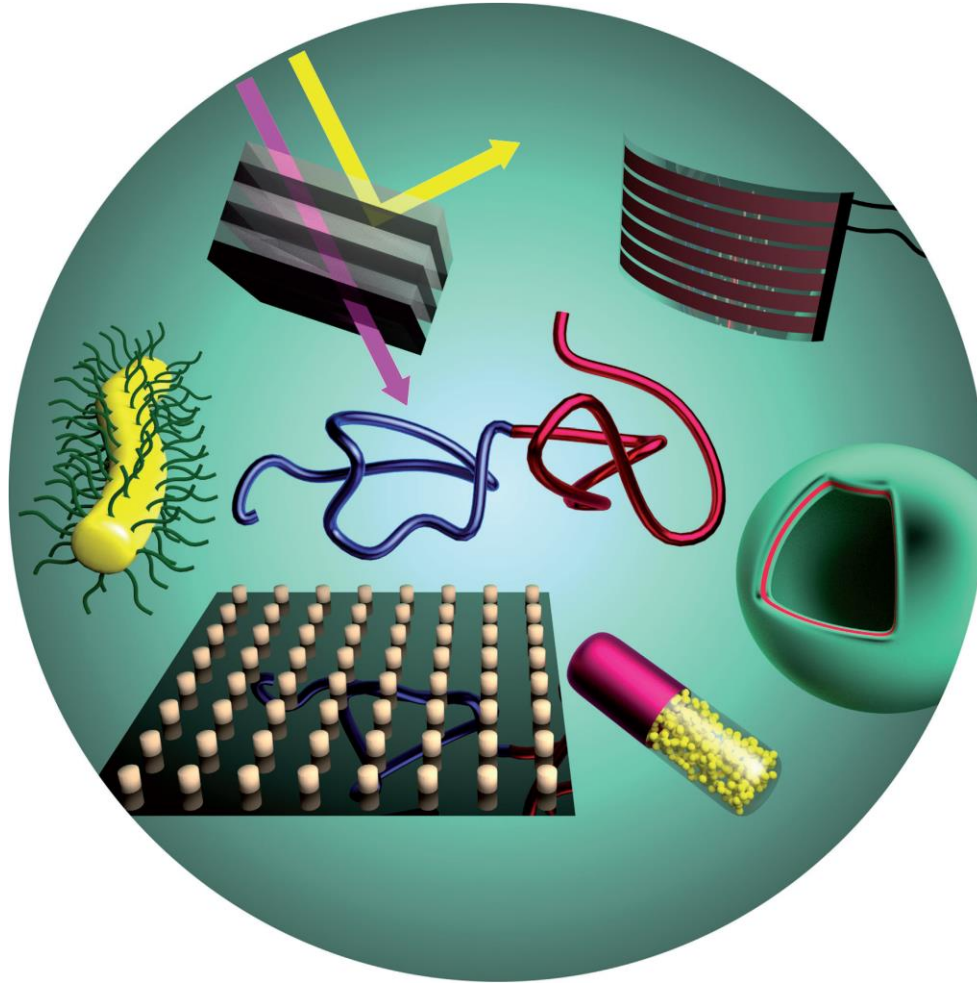
amorf rész



http://www.mdpi.com/polymers/polymers-09-00494/article_deploy/html/images/polymers-09-00494-g007.png

https://www.researchgate.net/publication/221911513_Fourier_Transform_Rheology_A_New_Tool_to_Characterize_Material_Properties/figures?lo=1

<https://www.lonza.com/~media/Images/Products%20and%20Services/coatings-and-composites/functional-chemicals-polymer-additives.ashx?h=195&w=589>



Szabályosan váltakozó



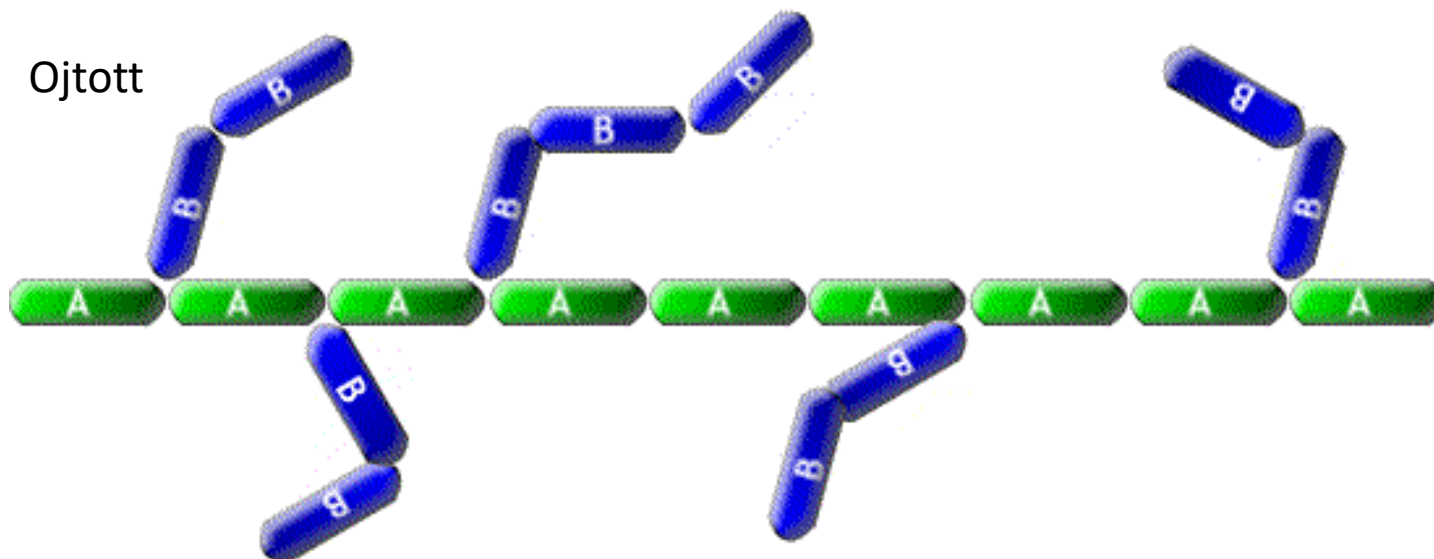
Blokk



Szabálytalanul váltakozó



Ojtott



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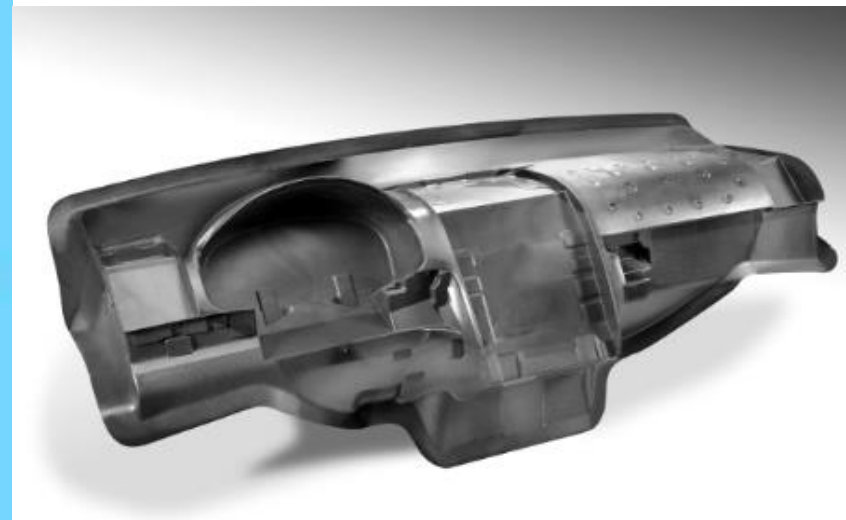
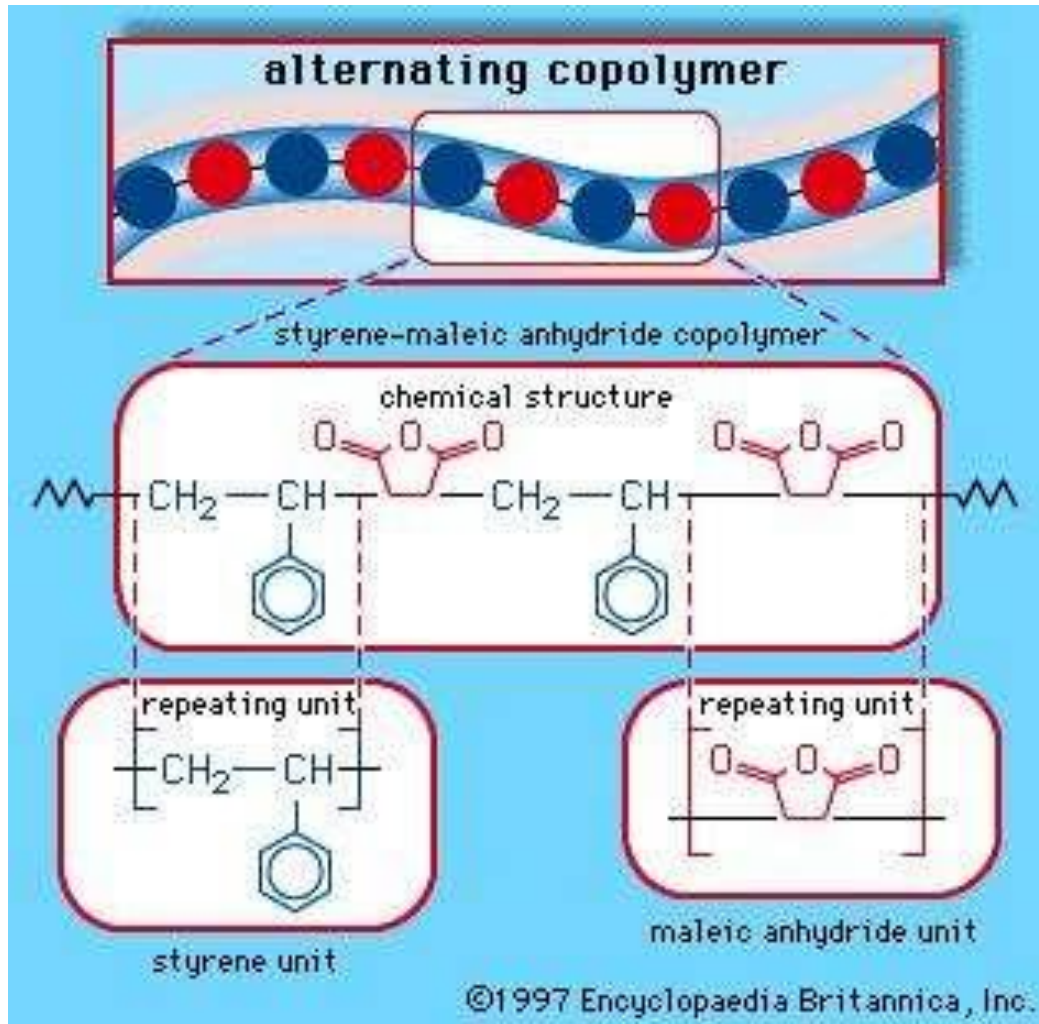
Szabálytalanul váltakozó



https://www.doitpoms.ac.uk/tlplib/polymerbasics/co_polymers.php

http://www.sangir.in/pro_pp_pipes.html

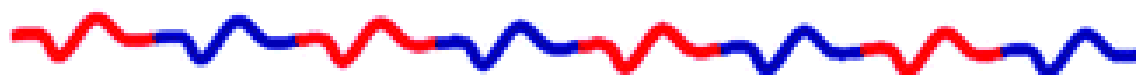
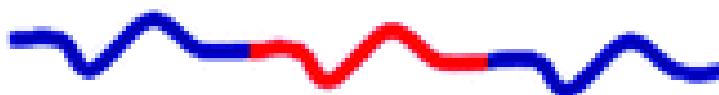
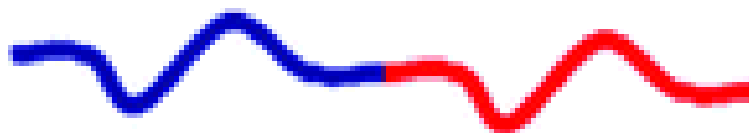
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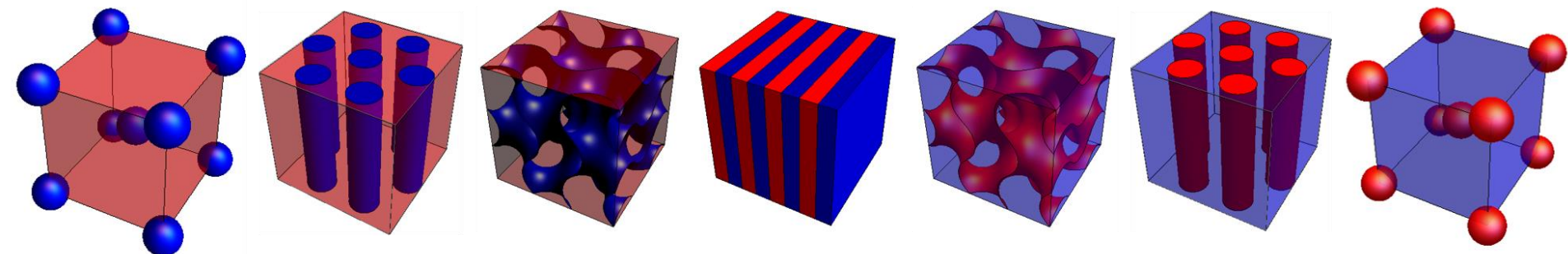
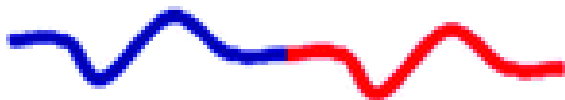


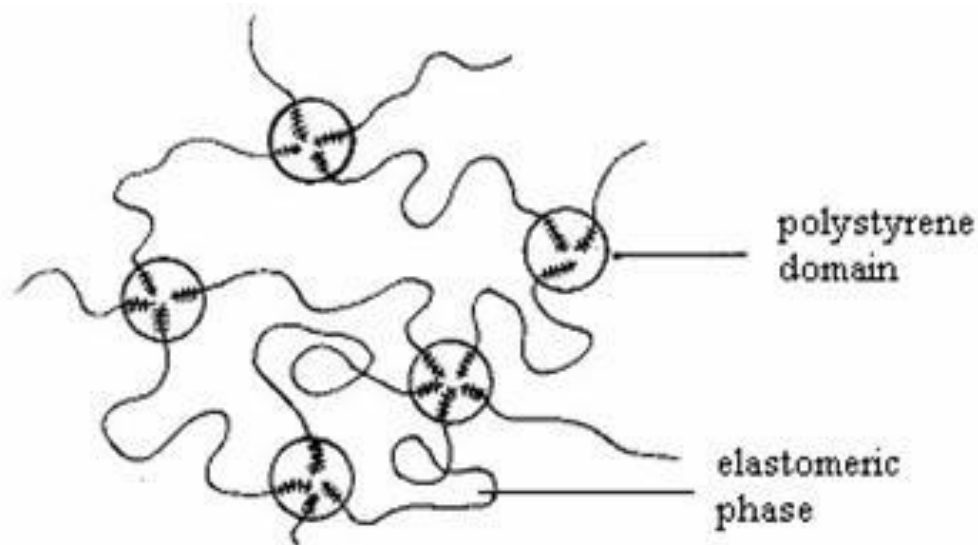
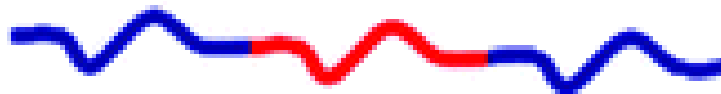
<https://www.britannica.com/science/styrene-maleic-anhydride-copolymer>

<http://www.plastics.gl/exhibit/take-the-heat/>

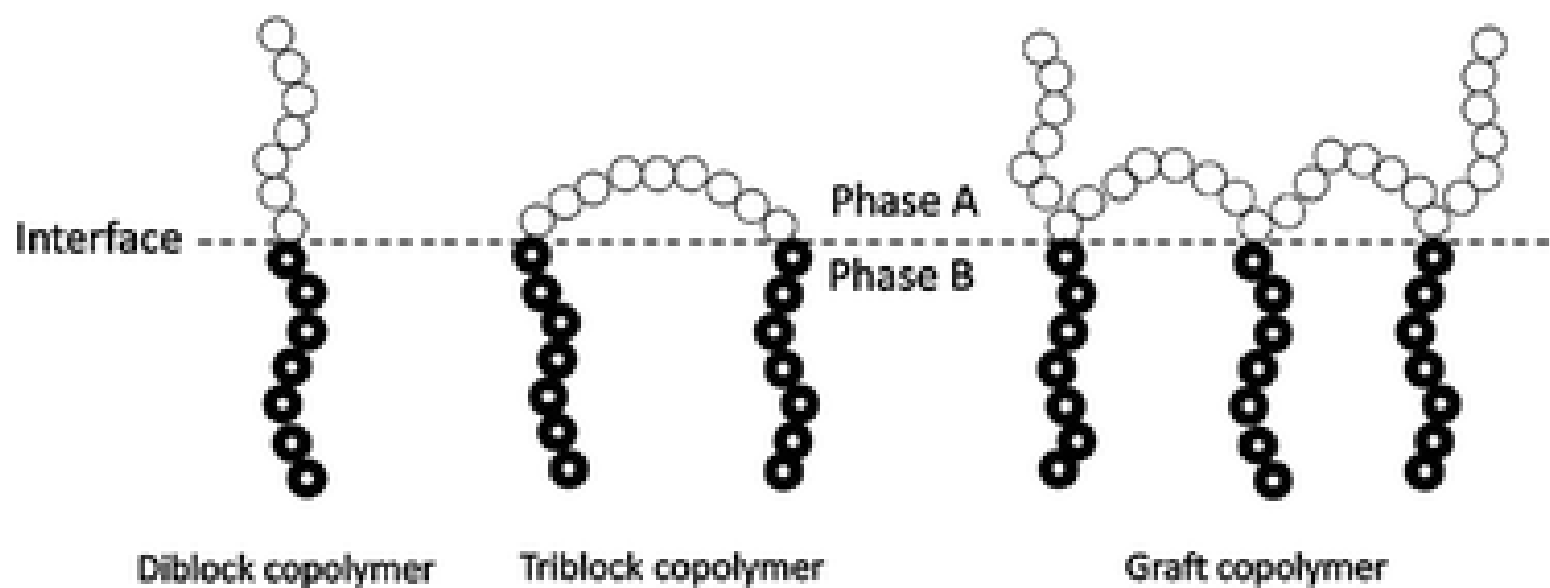
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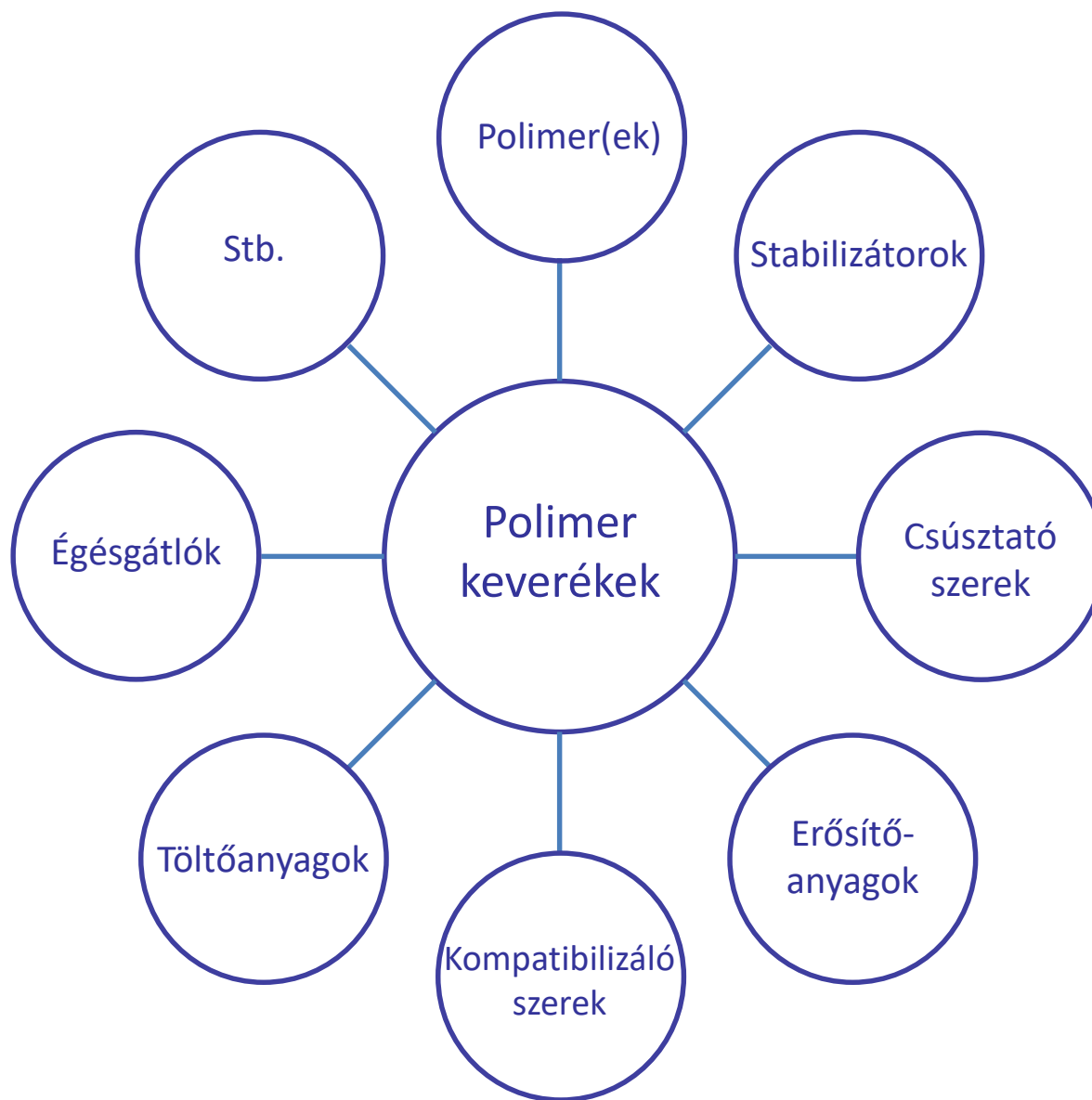




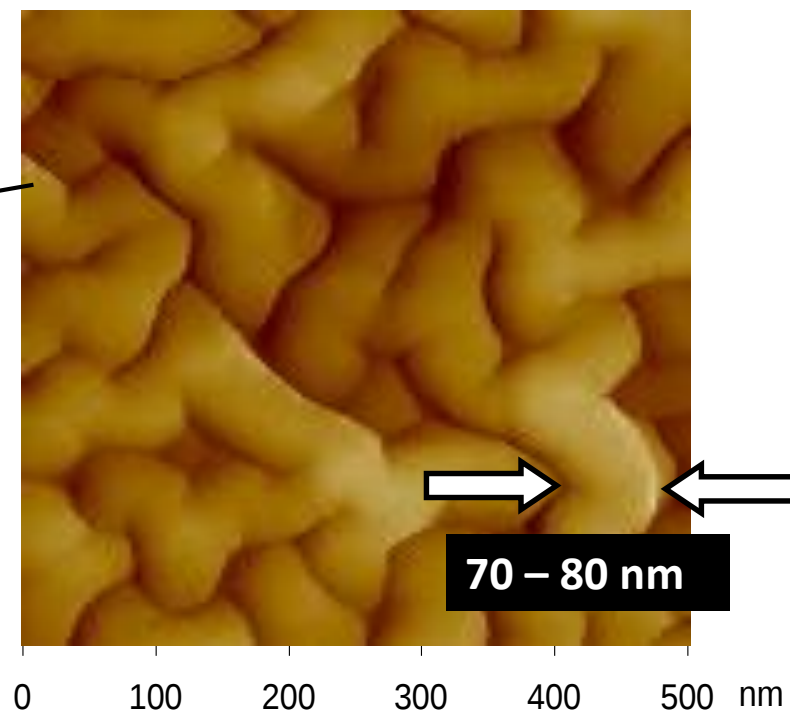
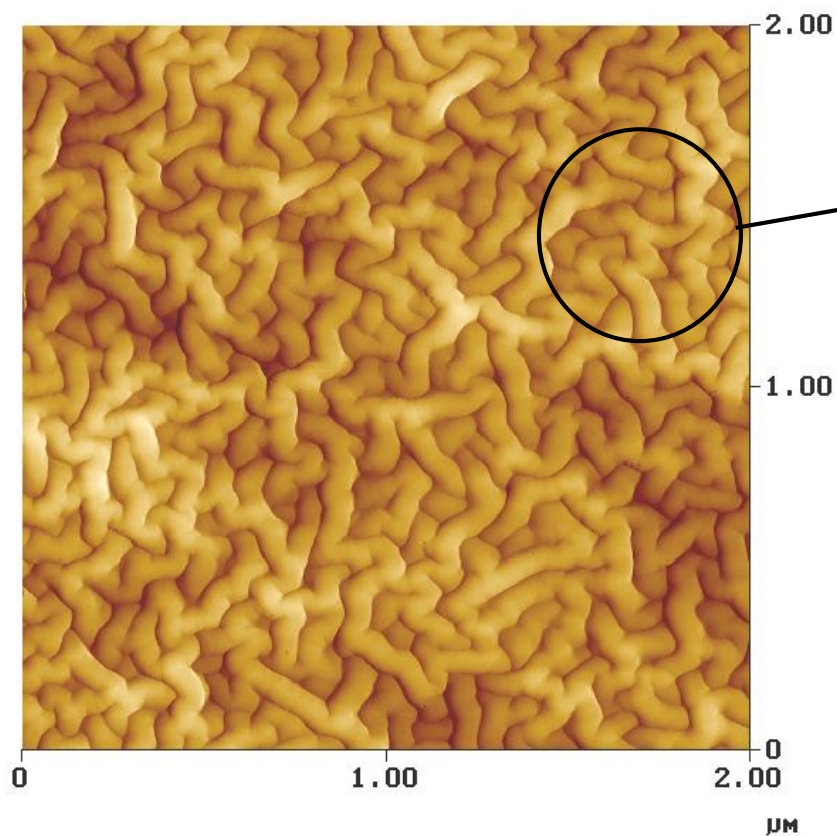


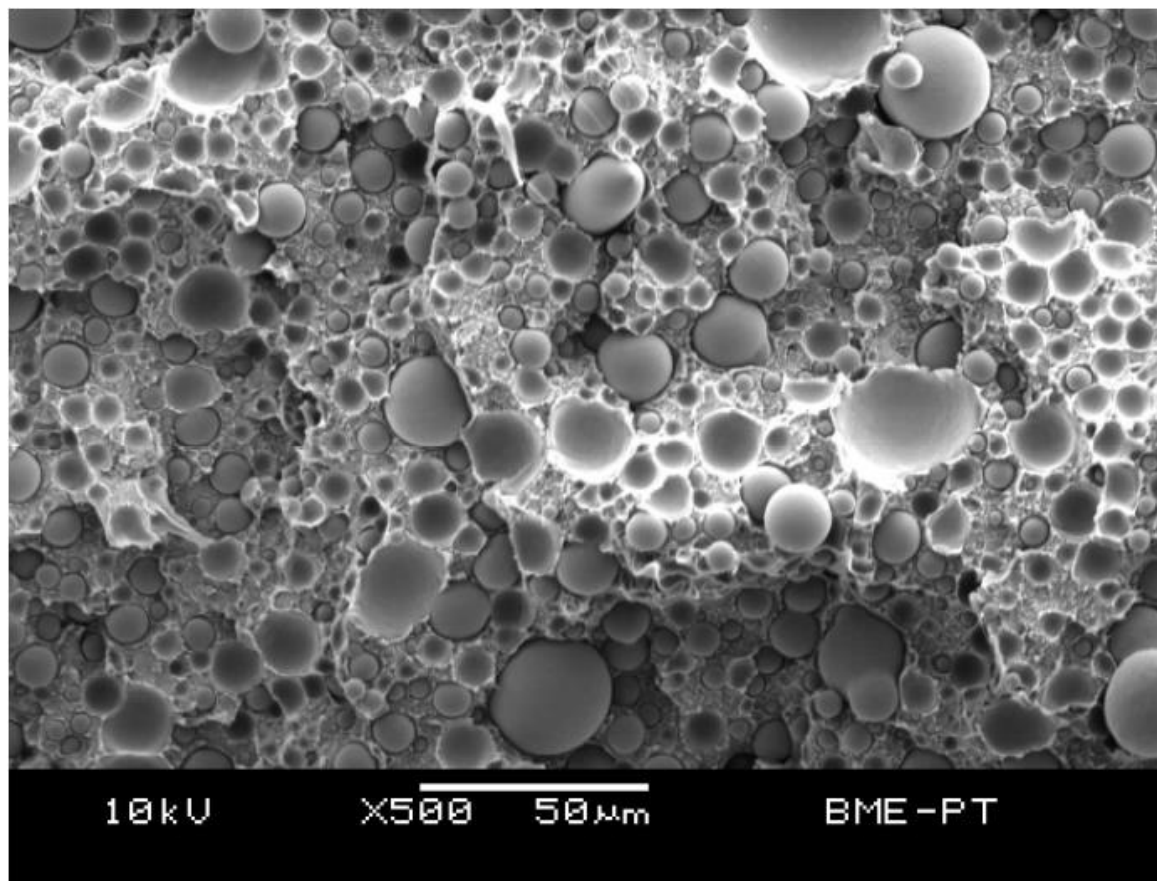
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https://www.tut.fi/ms/muo/vert/5_rubber_chemistry/SR_block_copolymer_TPEs.htm
<http://basstechintl.com/blog/chemical/interesting-facts-styrene-butadiene-styrene-sbs/>





Atomerő-mikroszkópos felvétel a VE/EP hibridgyanta egymásbahatoló hálószerkezetéről (IPN)





20% PET / 80% PE





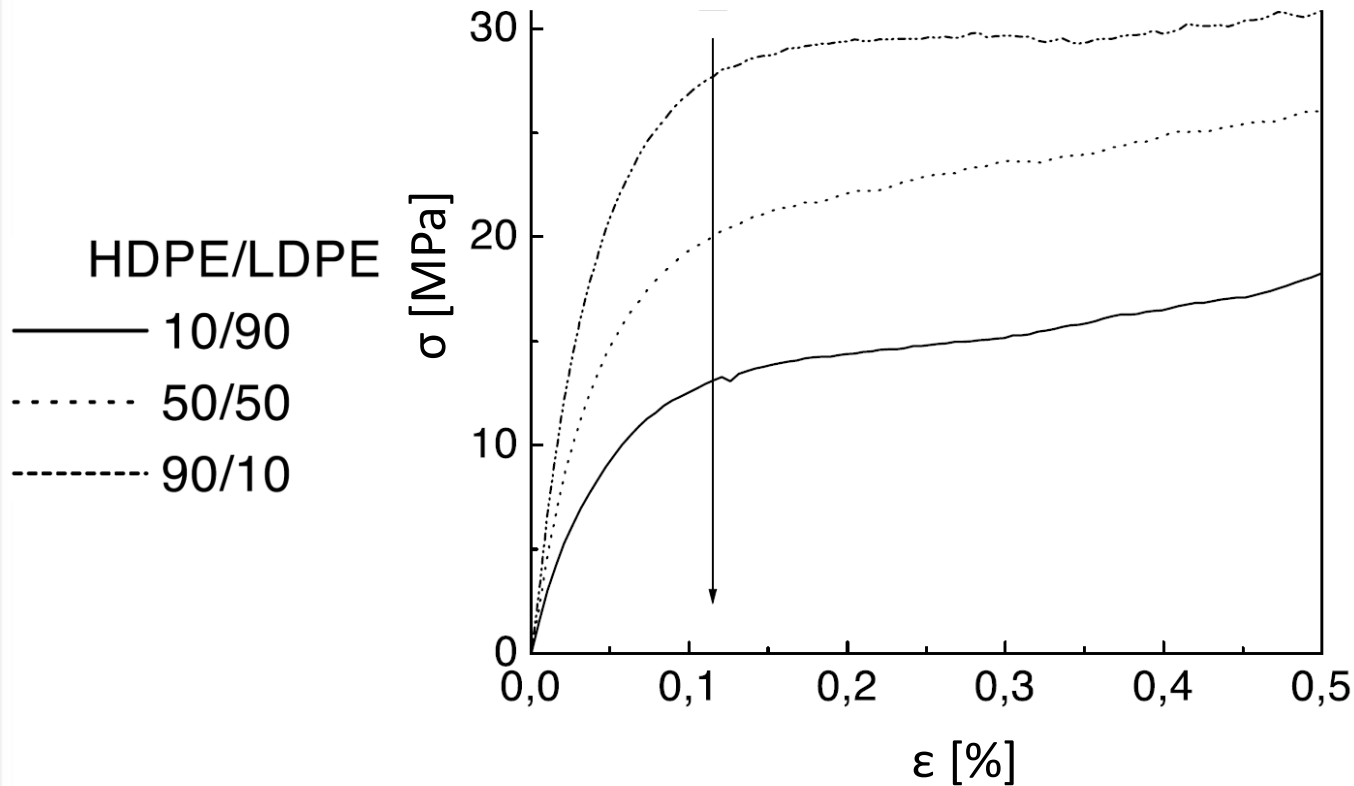
Polimerek összeférhetősége



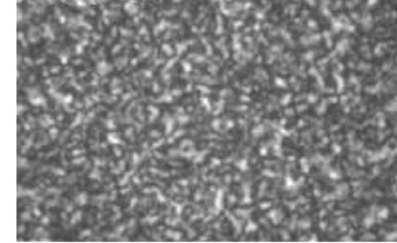
	PS	ABS	PA	PC	PMMA	PVC	PP	LDPE	HDPE	PET
PS	1									
ABS	6	1								
PA	5	6	1							
PC	6	2	6	1						
PMMA	4	1	6	1	1					
PVC	6	3	6	5	1	1				
PP	6	6	6	6	6	6	1			
LDPE	6	6	6	6	6	6	6	1		
HDPE	6	6	6	6	6	6	6	1	1	
PET	5	5	5	1	6	6	6	6	6	1

1: jól keveredő; 6: összeférhetetlen

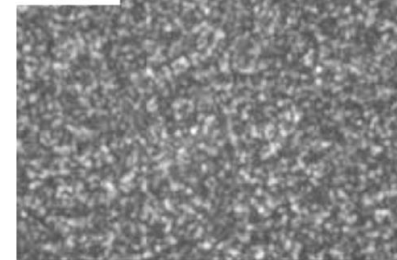
Czvikovszky T., Nagy P., Gaál J.: A polimertechnika alapjai, Műegyetemi Kiadó, Budapest, 2006.



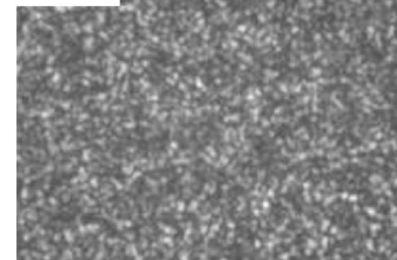
HDPE/LDPE
100/0



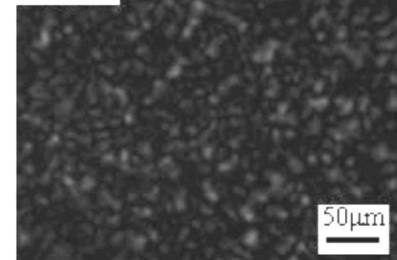
70/30



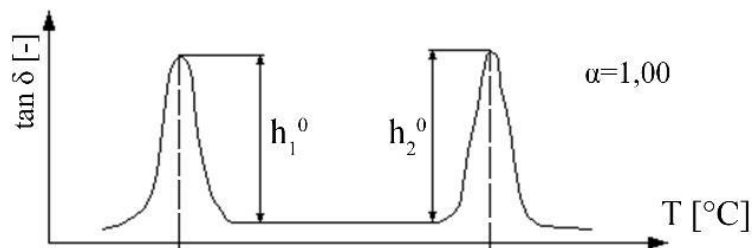
50/50



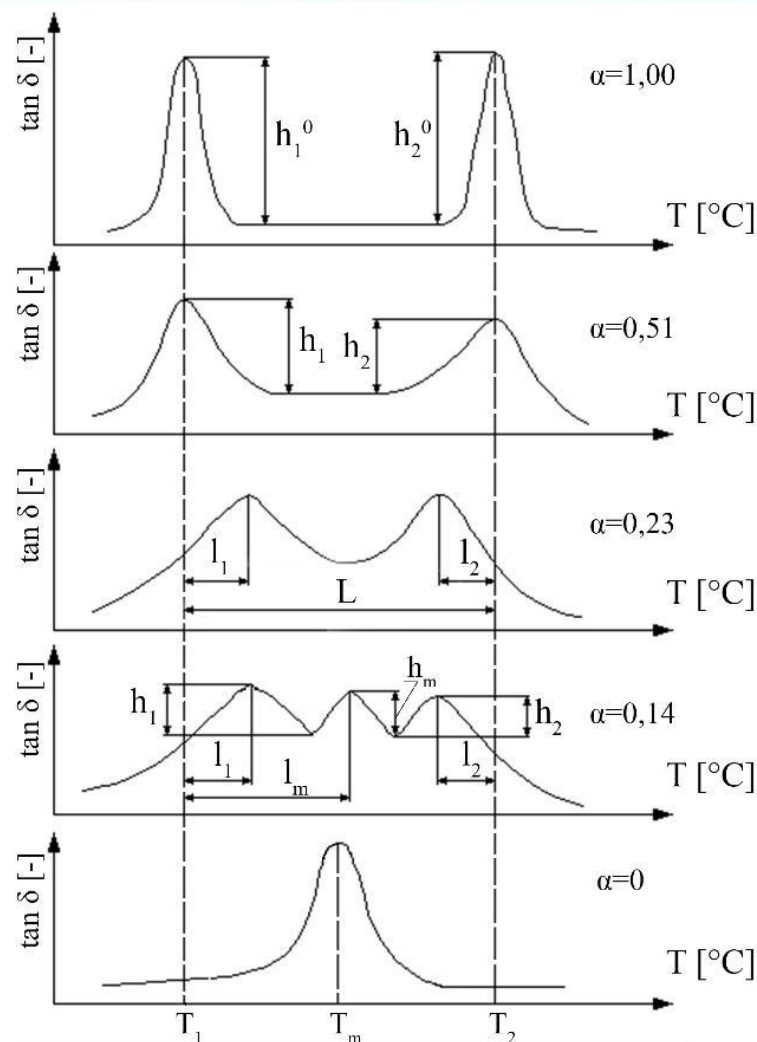
0/100



Fu Q., Men Y., Strobl G.: Understanding of the tensile deformation in HDPE/LDPE blends based on their crystal structure and phase morphology, Polymer 44 (2003) 1927–1933.

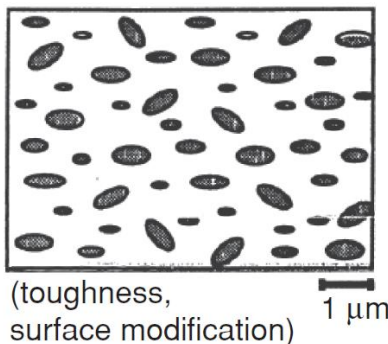


Gryshchuk O., Karger-Kocsis J.: Nanostructure in Hybrid Thermosets with Interpenetrating Networks and its Effect on Properties. Journal of Nanoscience and Nanotechnology, 6, 345–351 (2006)

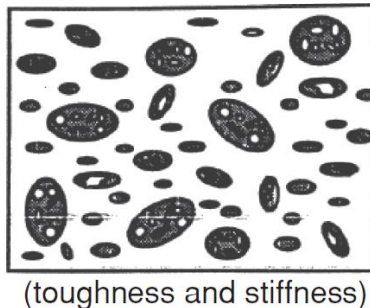


Gryshchuk O., Karger-Kocsis J.: Nanostructure in Hybrid Thermosets with Interpenetrating Networks and its Effect on Properties. *Journal of Nanoscience and Nanotechnology*, 6, 345–351 (2006)

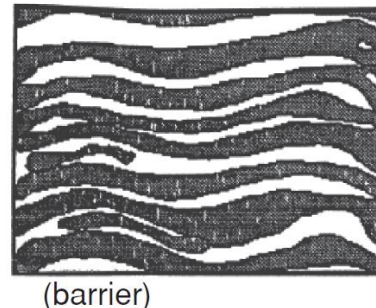
Drops



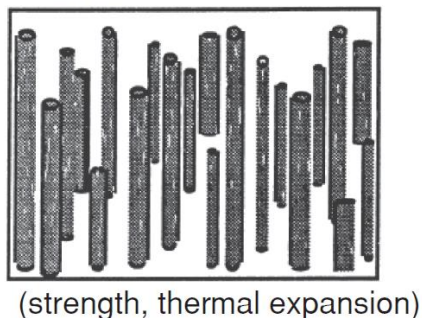
Double emulsion



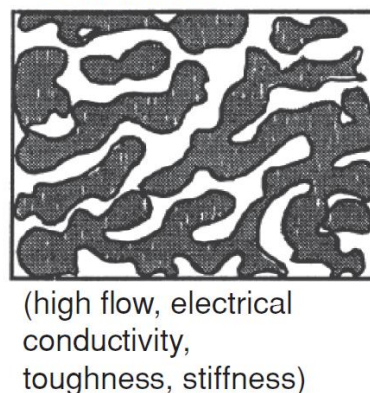
Laminar



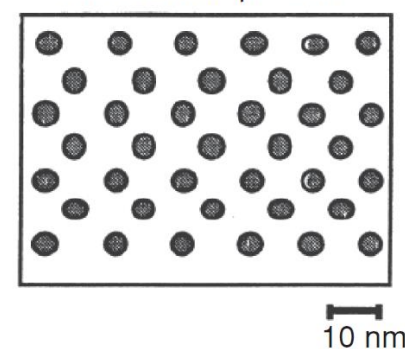
Fibers



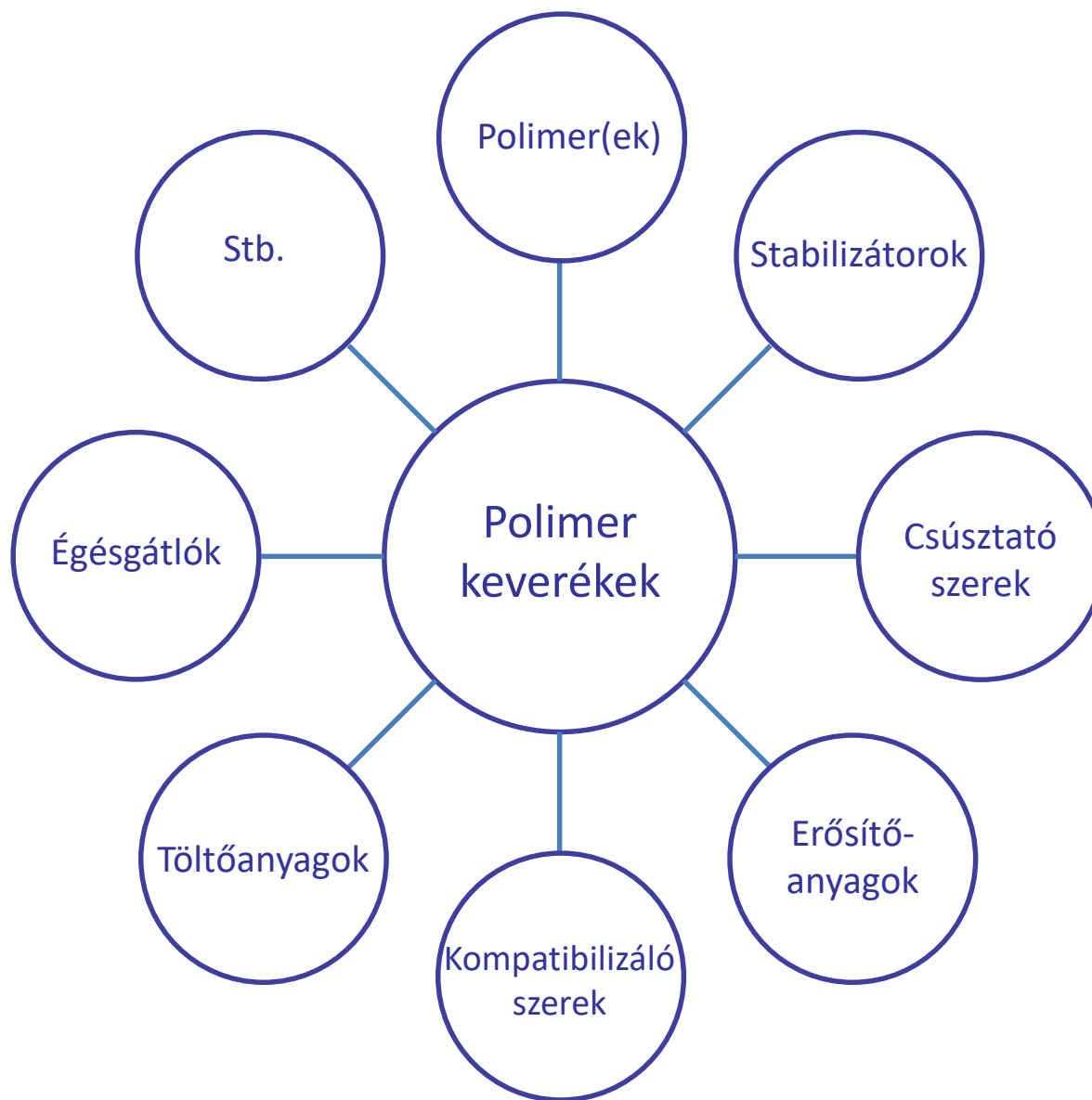
Cocontinuous

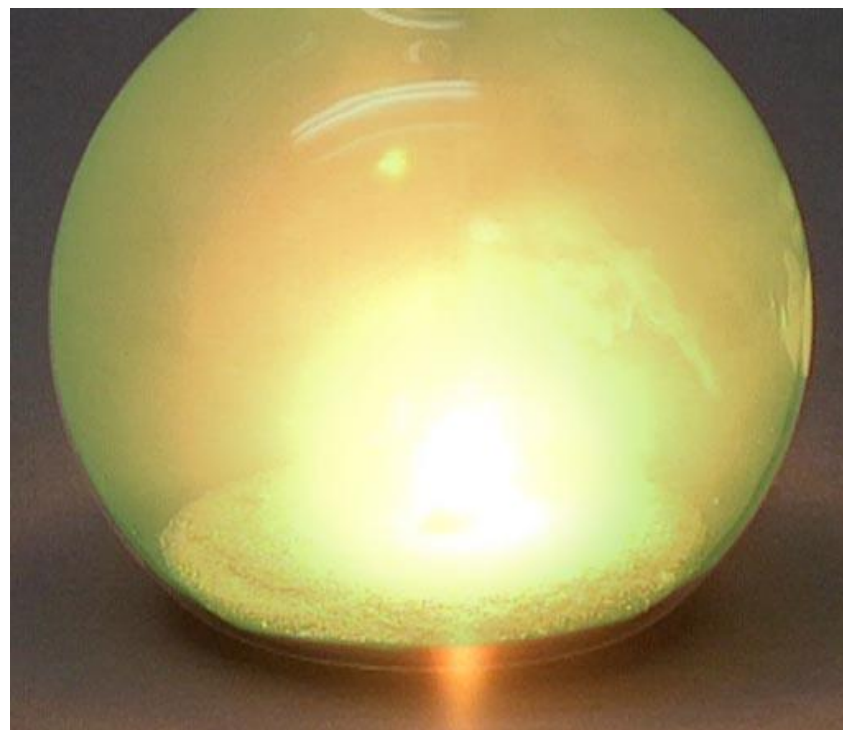


Ordered microphases

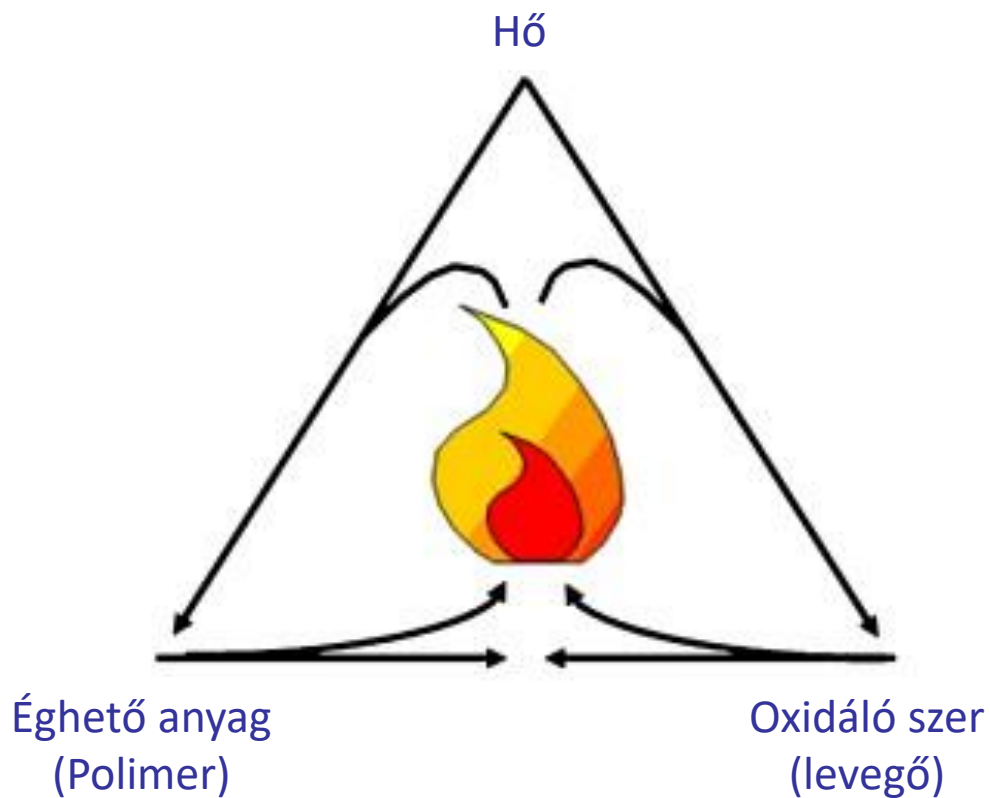


Thomas S., Boudenne A., Ibos L., Candau Y.: Physical, thermophysical and interfacial properties of multiphase polymer systems: State of the art, new challenges and opportunities. in Handbook of multiphase polymer systems (szerk.: Boudenne A., Ibos L., Candau Y., Thomas S.), Vol. 1, John Wiley and Sons Ltd., Chichester (Egyesült Királyság), 2-3, 2011

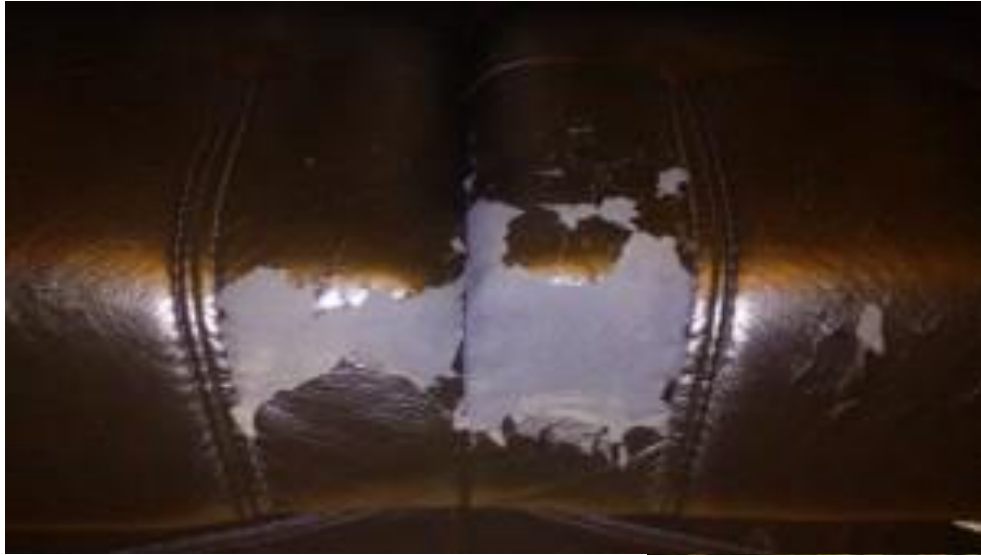




<http://tudasbazis.sulinet.hu/hu/szakkepzes/gepeszet/gepeszeti-szakismeretek-2/a-tuz-es-robbanasveszelyek-megelozesere-vonatkozo-biztonsagtechnikai-eloirasok-tuz-es-robbanasveszelyes-anyagok-csoportositasa-jelzese-tarolasa/az-eges-jellemzoi-robbanoanyagok>
<http://www.chemistryland.com/CHM130W/07-Mole/Mole.htm>

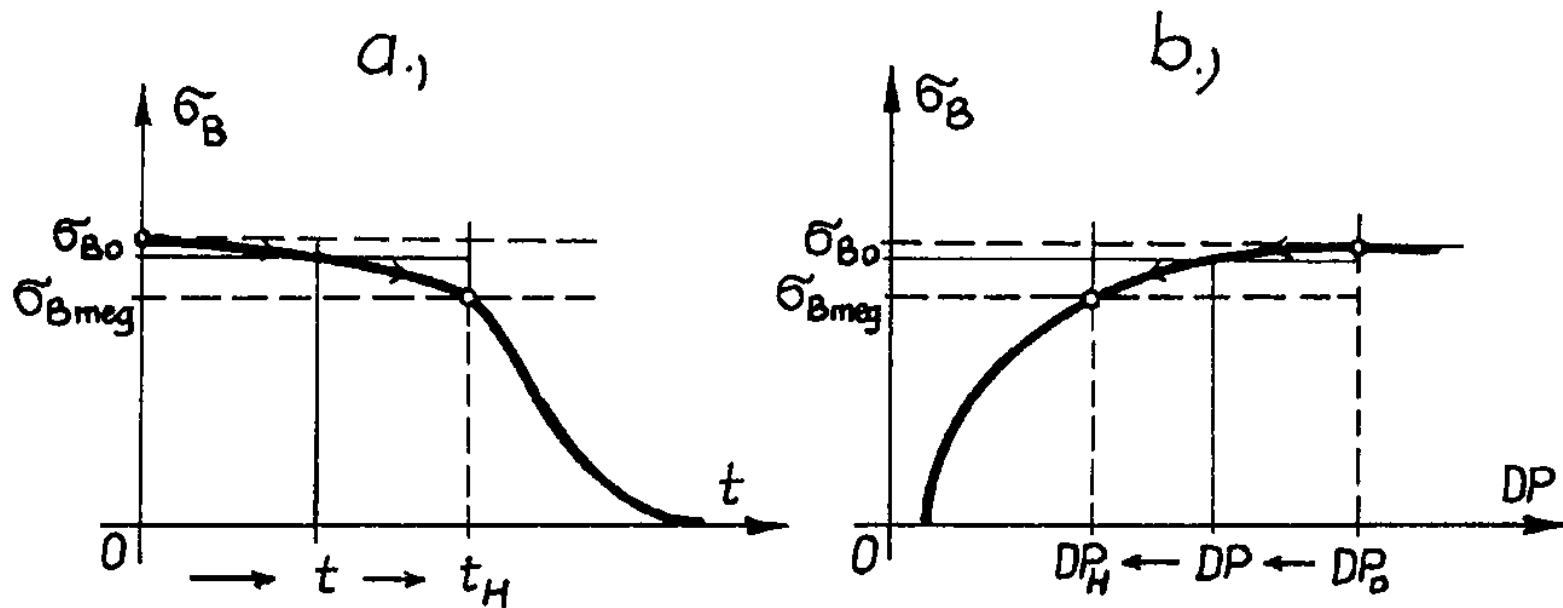


F. Laoutid, L. Bonnaud, M. Alexandre, J.-M. Lopez-Cuesta, Ph. Dubois: New prospects in flame retardant polymer materials: From fundamentals to nanocomposites, Materials Science and Engineering, 63, (2009), 100–125.



<http://borbutorszerviz.hu/borbutor-javitasi-lehetosegek/>

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Köszönöm a figyelmet!