FRESH THINKING GREAT PRODUCTS



Compatibilizer

PA/ABS PC/ABS

Polyscope offers a broad portfolio of styrene maleic anhydride (SMA) copolymers, compounds, aqueous solutions and styrene maleic anhydride N-phenylmaleimide (SMANPMI) terpolymers.

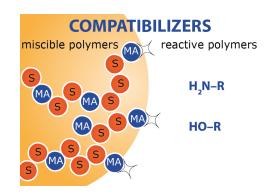
Polyscope's blend optimers range offer optimal properties in polymer blends and alloys. The MA functionality in our polymer range offers solutions in compatibilization , coupling agents and chain extenders. Our Compibilizer grades are designed to compatibilize compounds of polycarbonate (PC) and acrylonitrile butadiene styrene (ABS) or acrylonitrile styrene acrylate (ASA), compounds of polyamide (PA) and ABS and compounds of polybutylene terephthalate (PBT) and ABS or ASA.

Blend optimization

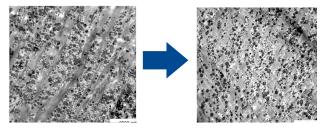
Polymer blends are often immiscible and need to be compatibilized. Our compatibilizers optimize the interfacial tension, stabilize the morphology against high stresses and enhance the adhesion between the phases in the solid state. The compatibilization results in a large improvement of the mechanical properties of the polymer blend.

Potential Solutions for compatibilization

Performance Enhancers Performance Enhancers Comparting Agents Chain extenders



Dispersing effect



	neuclive rolymens —				
			Polycarbonate	Polyesters	Polyamides
Aiscible Polymers		ABS/SAN	✓	✓	✓
	{	ASA	✓	\checkmark	✓
		PS/HIPS	✓	✓	✓
		SBC	-	\checkmark	\checkmark
Misc		РРО	-	-	\checkmark
		РММА	-	\checkmark	-

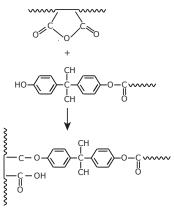
Reactive Polymers \rightarrow

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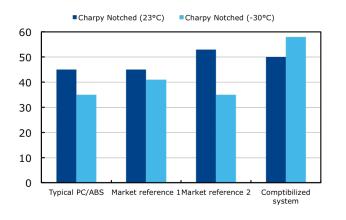
PC/ABS Blends

These blends are the most consumed blends in the market. It is well known especially in the automotive industry. Polyscope offers a solution by optimizing the morphology of these blends resulting in an optimized property profile. Different products are availiable for various blends ratios.



Optimized properties

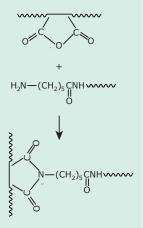
The addition of a compatibilizer in PC/ABS blends result into optimized moprhology resulting in optimal impact properties.



Charpy Notched 23 °C	47	
Charpy Notched -30 °C	51	
Tensile Modulus	200	
Elongation at break	63	
Tensile Strength	47	
MFI 260/5	20	

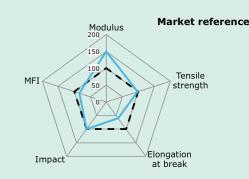
PA/ABS Blends

These blends offer the optimal balance of properties when combining the crystaline properties of PA and the amorphous properties of ABS. The combination of these properties makes it a very populait blend in the market. A comptiabilizer is necessary in order obtain these blends, Polyscope offers an optimized solution PA/ABS blends in different ratios.



Great overall properties

The rapid reaction of MA with PA end groups require different type of products. Polyscope offers an optimized rang for PA/ABS blends with different ratio's.



Charpy Notched 23 °C	NB	
Charpy Notched -30 °C	18	
Tensile Modulus	1700	
Elongation at break	280	
Tensile Strength	33	
MFI 220/10	28	

in

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