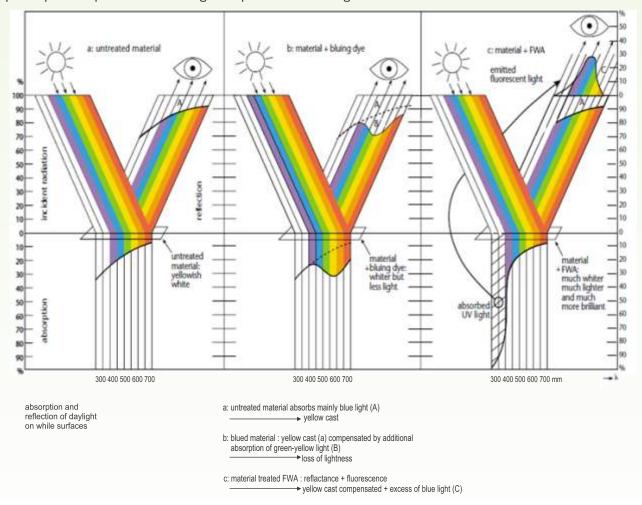


OPTICAL BRIGHTENER MASTERBATCH

SPL Optical Brightener MBs are based on fluoroscent whitening agents which absorb ultraviolet (UV) light in the 300 to 400 nm range and re-emit most of the absorbed energy as blue fluorescent light between 400 and 500 nm. The emitted blue light will reduce the yellowness of the polymer and provide the **whiter than white** appearance.

The principle of Optical Whitening is explained in the figure below -



Based on the hue of the fluorescence produced under incident light, SPL offers two distinct types of OB masterbatches - Neutral White & Ultra White in Styrenic & Polyolefinic carrier.

Features and Benefits

- Whiter than White Appearance
- Good compatibility with Polymer substrate
- No interaction with other Pigments & Additives
- Easily dispersible
- Good light fastness
- ❖ Excellent resistance to heat
- High chemical stability
- Low volatility



Grade	% Active	Dosage	Compatible	Applications
	Content	level, %	Polymers	
SP7337 0001	1	0.5-2.5	GPPS, HIPS	Injection molding, Extrusion and
(Neutral White)				Thermoforming
				*Recommended in GPPS for
				edge glow
SP7338 0001	1	0.5 – 2.5	HIPS	Injection molding, Extrusion
(Ultra White)				and Thermoforming
SP7338 0002	2	0.5 – 1.5	HIPS	Injection molding, Extrusion
(Ultra White)				and Thermoforming
SP7137 0001	1	0.5-2.5	LLDPE, LDPE,	molding (Injection, Blow & Roto),
(Neutral White)			HDPE, PPHP,	Films, Tapes, Pipes, Profiles
			PPCP, EVA	
SP7138 0001	1	0.5 – 2.5	LLDPE, LDPE,	molding (Injection, Blow & Roto),
(Ultra White)			HDPE, PPHP,	Films, Tapes, Pipes, Profiles
			PPCP, EVA	
SP7138 0002	2	0.5 – 1.5	LLDPE, LDPE,	molding (Injection, Blow & Roto),
(Ultra White)			HDPE, PPHP,	Films, Tapes, Pipes, Profiles
			PPCP, EVA	

Note: *In case further information is required, contact SPL representative for recommendation / clarification.

Regulatory Compliance

At recommended levels, SPL OB Master batch is suitable for food contact applications. All grades are Heavy Metal free and are compliant with RoHS regulation.

Packaging & Storage

Material is supplied in pellet form, packed in 25 Kg laminated bags. SPL recommends storage of material in a ventilated & covered facility, protected from Moisture, Sunlight and Heat. The packing material used is not UV stabilized and hence should not be exposed to sunlight.



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