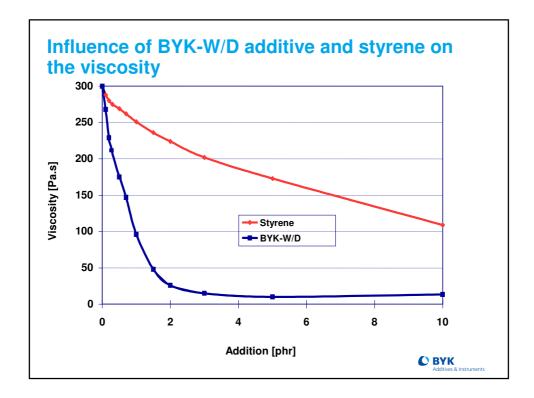
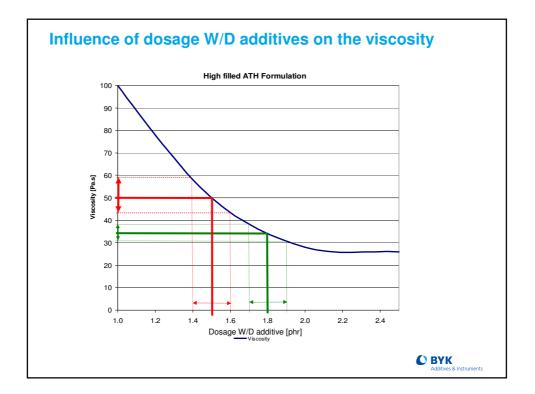
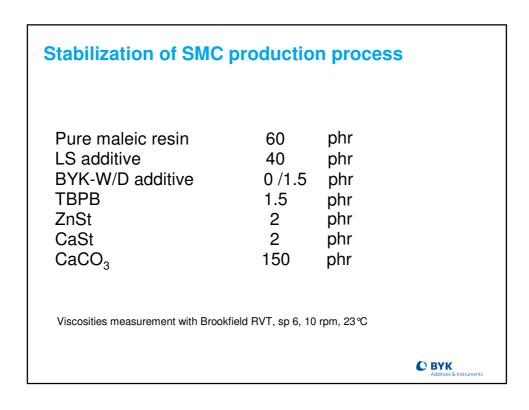
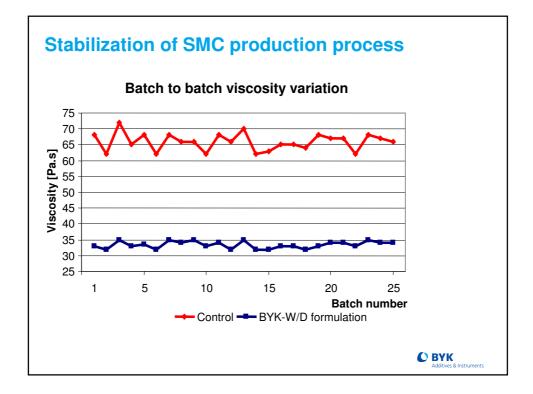


Influence of BYK-W/ the viscosity	D additiv	e and st	yrene on
UP resin LP additive	50 50	50 50	phr phr
BYK-W/D additive Styrene	0 - 10	0 -10	phr phr
Zn stearate ATH (21 μm)	5 300	5 300	phr phr
Sample-preparation: dispersion of the paste Viscosities measured with a Brookfield HBT			red for 30 minutes at 30 °C.

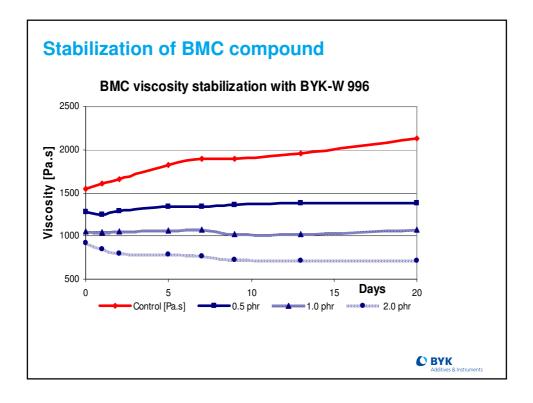


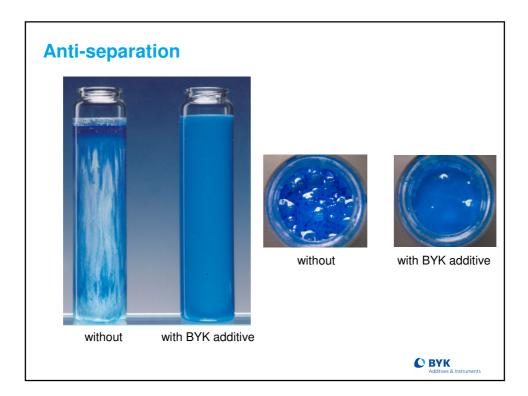


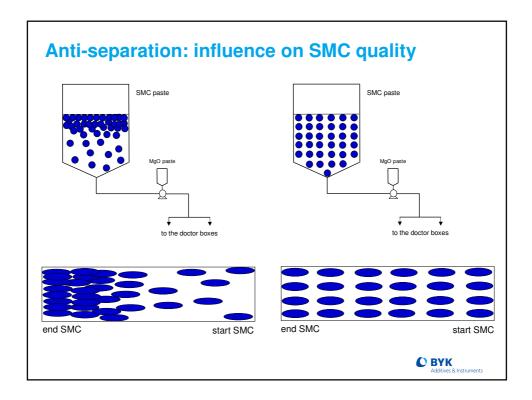


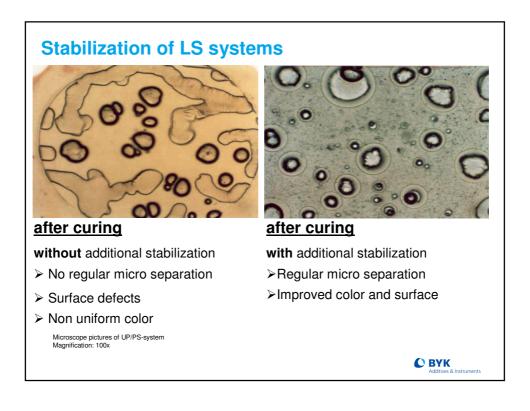


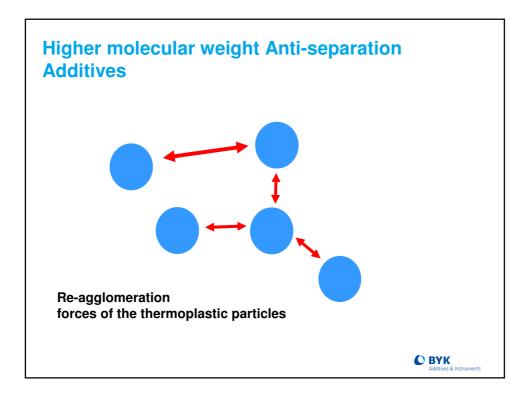
Formulation:			
Pure maleic resin	60	phr	
LP additive	40	phr	
BYK-W/D additive	0 - 2.0	phr	
TBPB	1.0	phr	
Inhibitor solution	0.1	phr	
ZnSt	2	phr	
CaSt	2	phr	
CaCO ₃	275	phr	
Viscosities measurement with Broc	okfield HBT, TD, 5 rpi	m, 23℃	

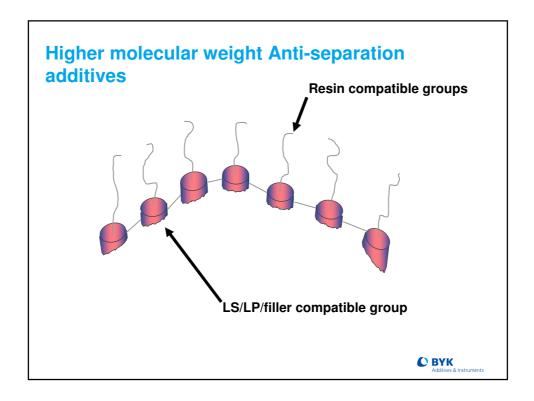


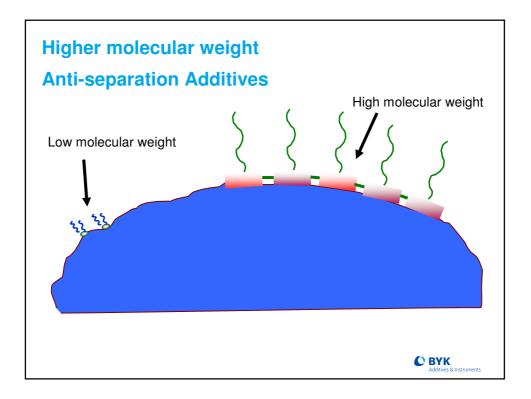


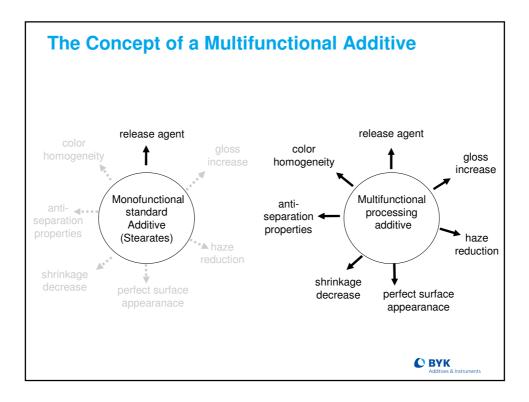


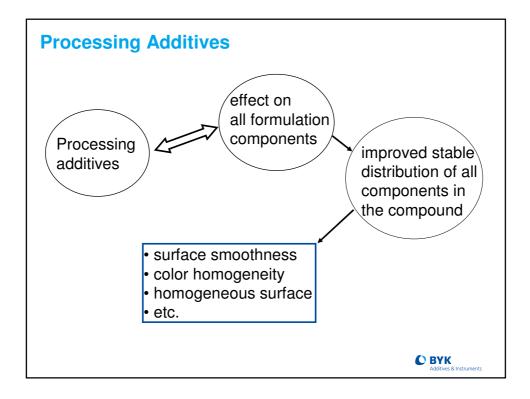






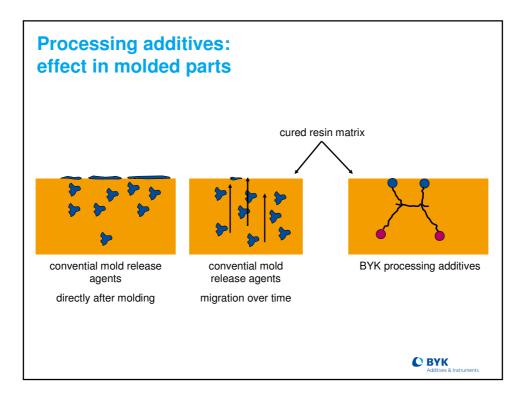


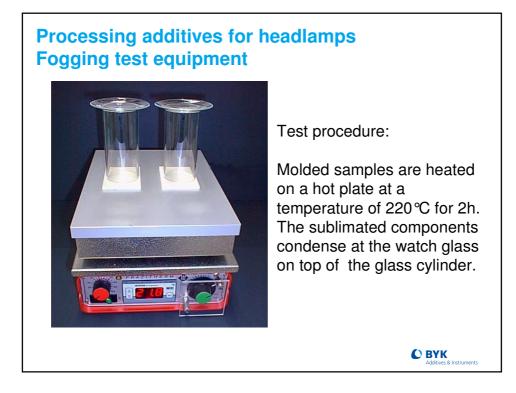




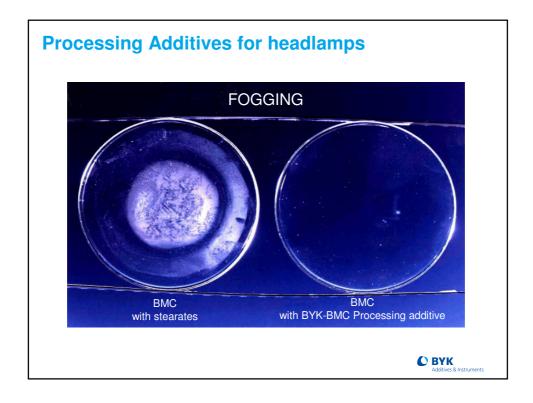


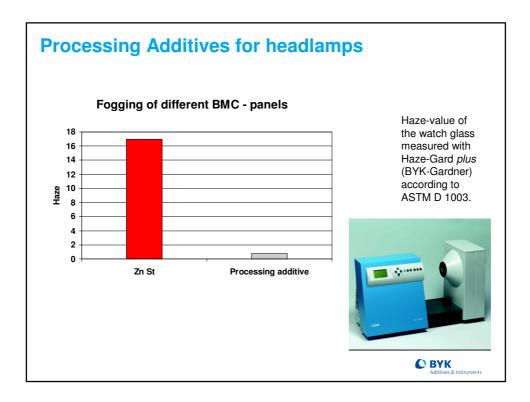
Processing Additives for headlamps	
The usage of materials at high temperature cause migration and sublimation of a.o. convential internal mold release agent. Even after metalization and coating.	
This becomes visible as a haze on the cold part (polycarbonate pane) inside a headlamp.	
Called: FOGGING	
C BYK Additives & Instruments	

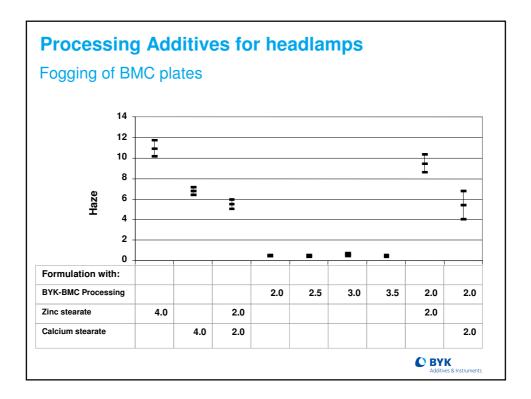


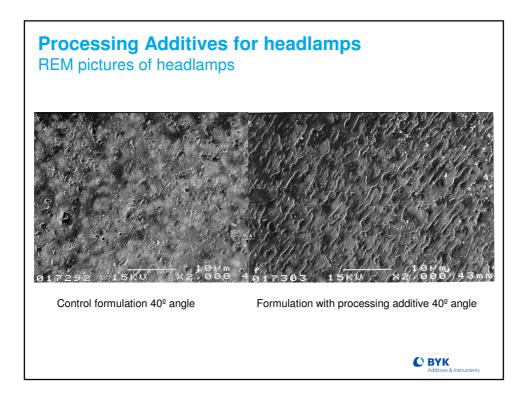


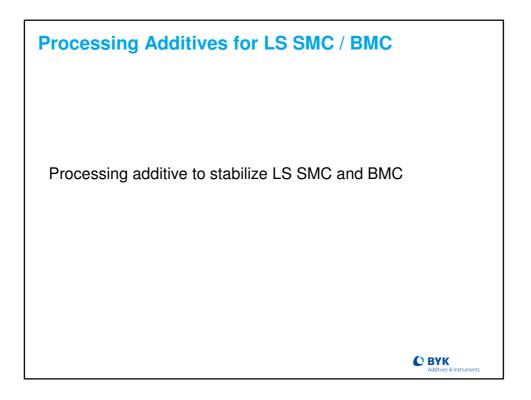
Fogging Test				
BMC-test panels with a s temperature of 220 °C.	size of app. 6	60 * 60 mm	are placed on a pre	cision hot plate at a
Place on the panels a gla Ø _{extern} Ø _{intern} h The glass cylinder is cov The watch glass has to b BYK-Gardner Haze-gard The testing time is 2 hou After these 2 hours, dry	= = = pered with a v pe very clean l plus on haz rs.	50 45 100 watch glass and befor e (no dime	mm mm mm s, which is cooled wit e exposure measure nsion).	
The difference in haze is haze → more fogging.	•			e number, the more

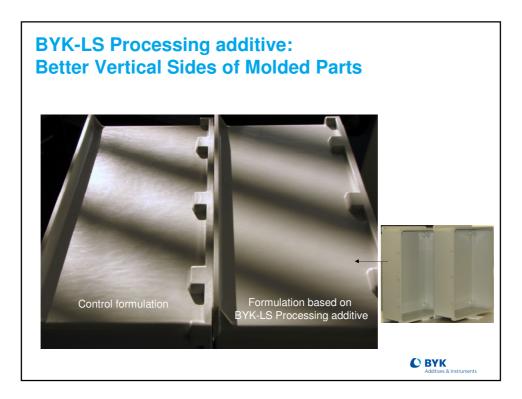


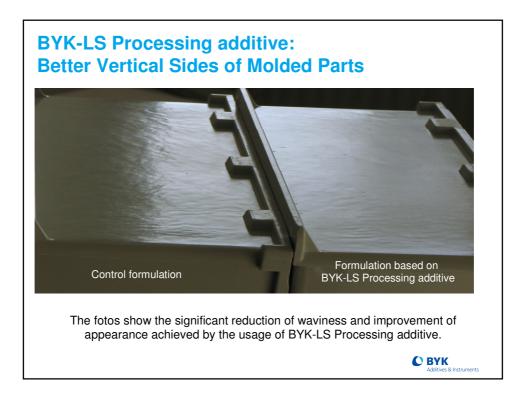


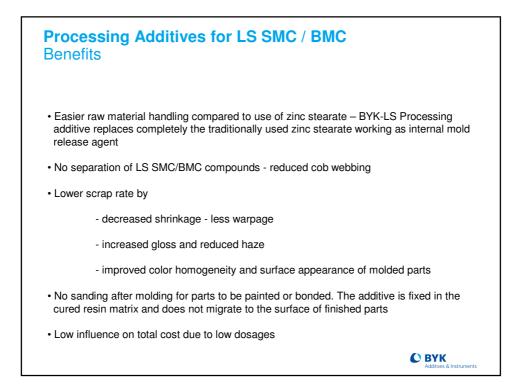


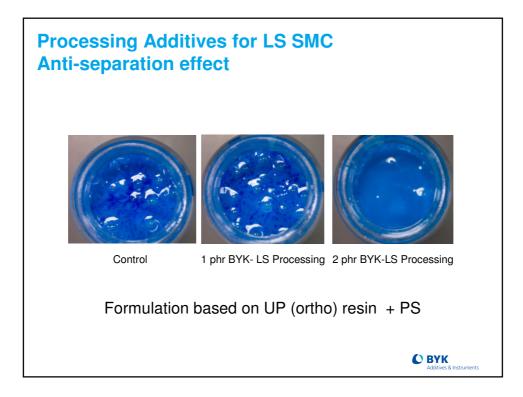


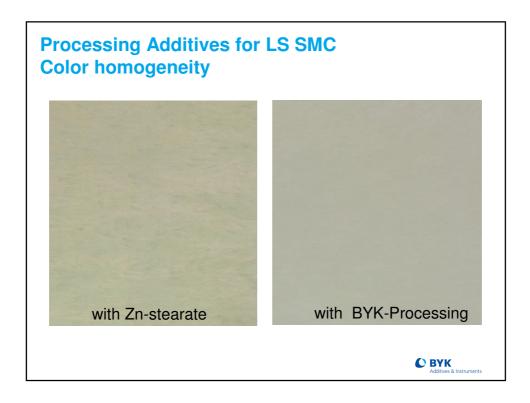


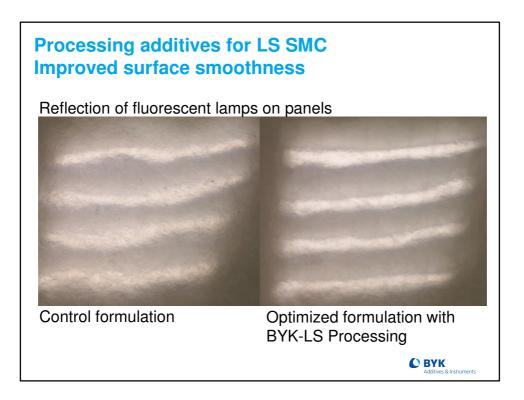


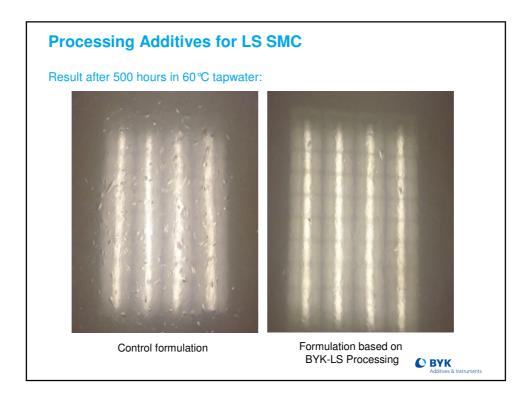


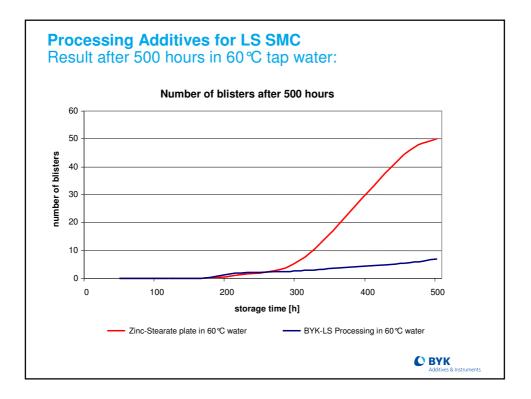


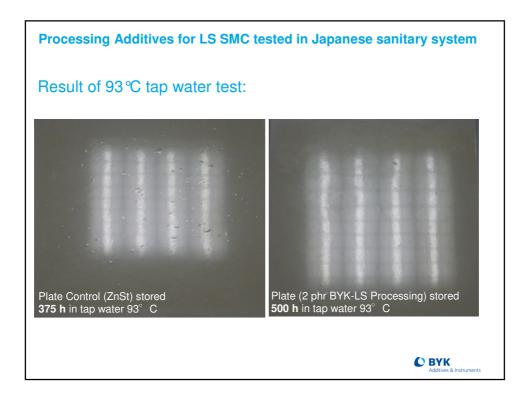


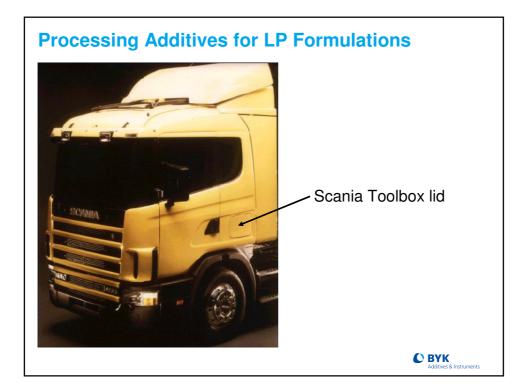


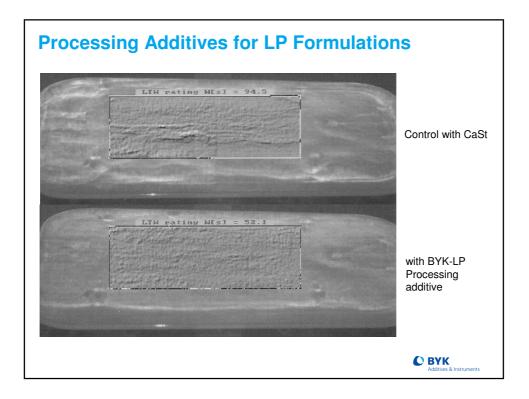


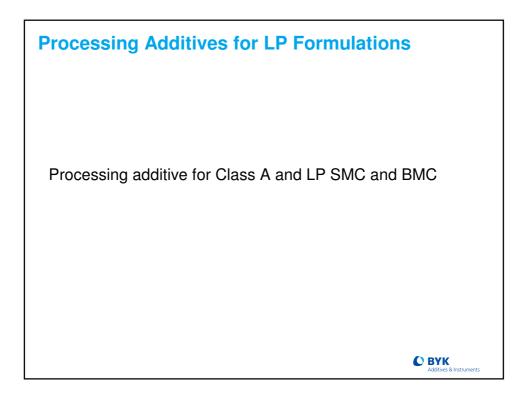


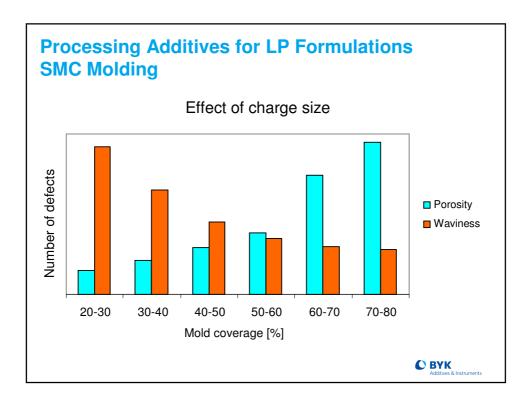


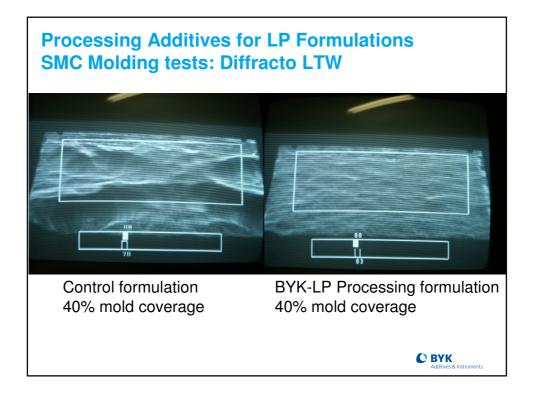


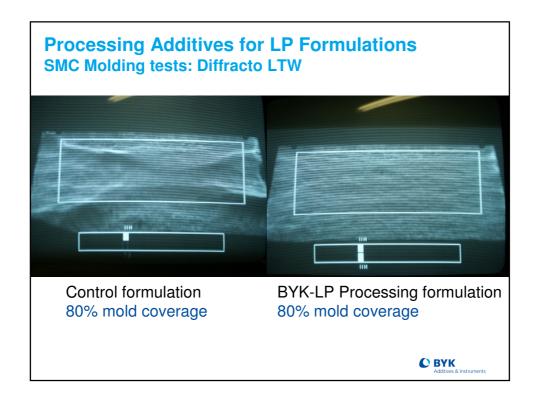


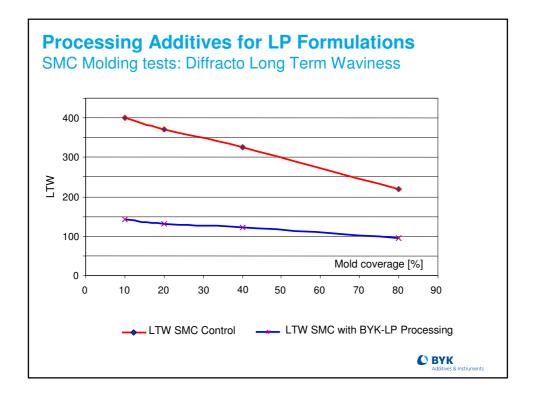


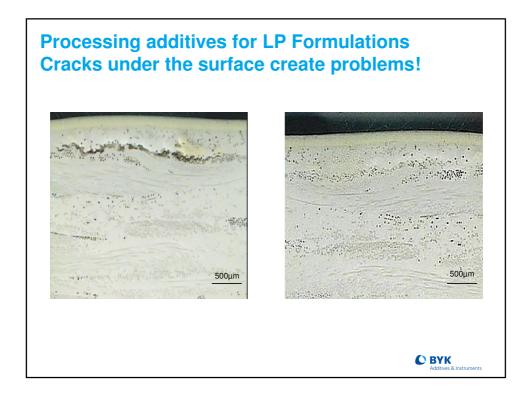


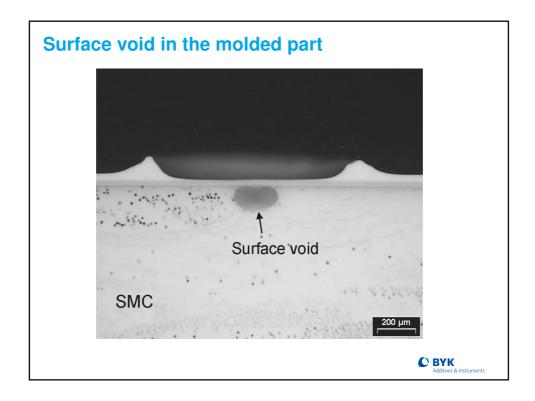


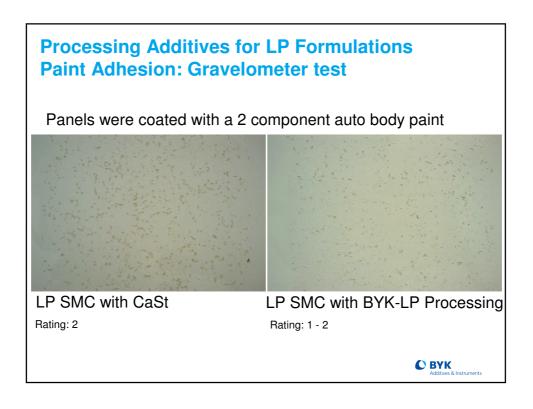


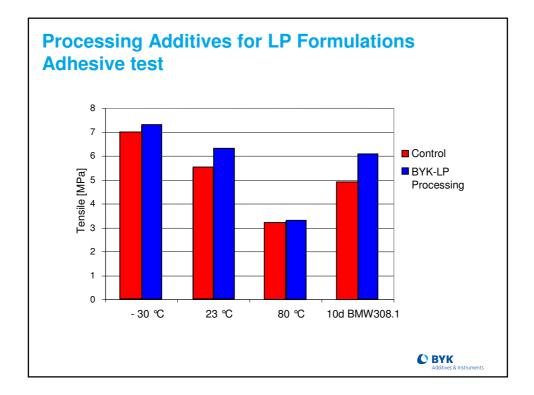


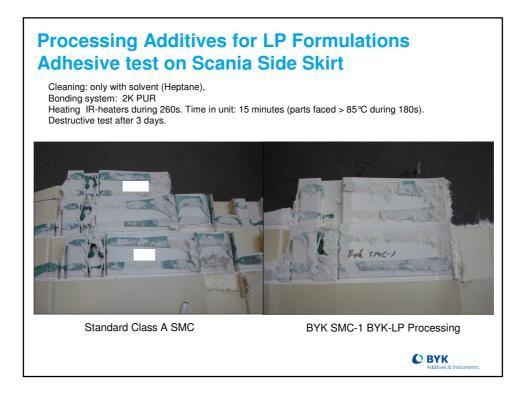


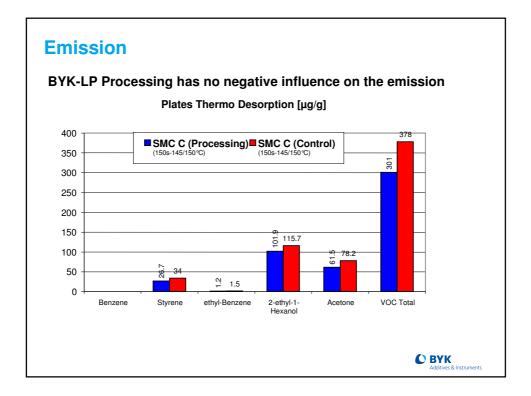




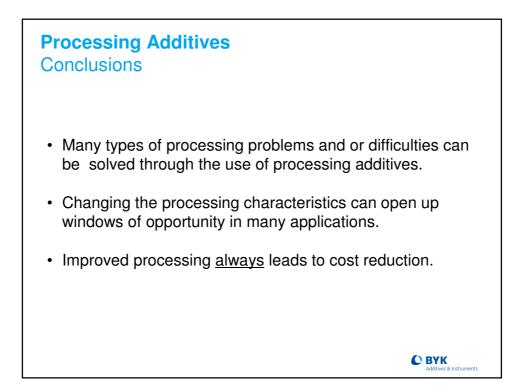


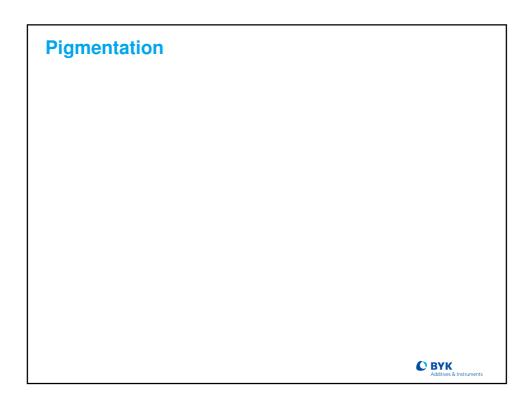


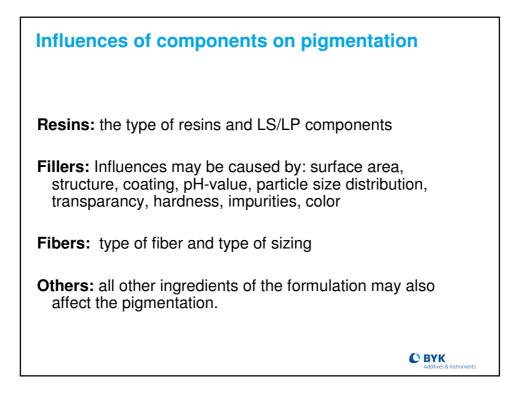


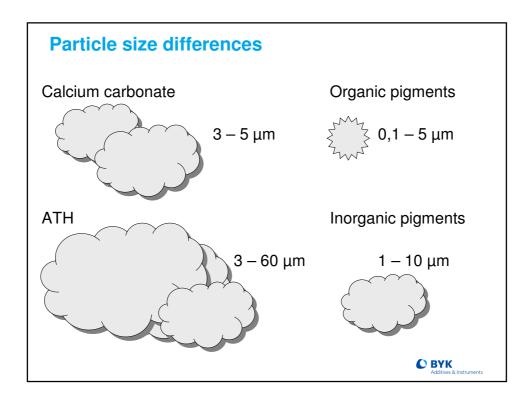


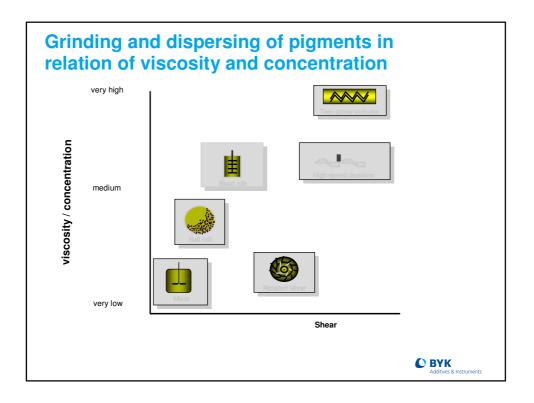
Processing Addi	tives - the differe	nt products
BMC / headlamps	LS-SMC / BMC	LP / Class A
BYK-BMC Processing	BYK-LS Processing	BYK-LP Processing
	1	© BYK Additives & Instruments











Туре	Pigment concentration	Viscosity Range [mPa.s]	Addition wt % on paste
White (Titanium dioxide)	~ 70 - 75 %	4 000 – 12 000	2,5 – 3,5 %
White (Zinc sulfide)	~ 75 %	4 000 – 12 000	3 – 4 %
White (Lithopone-ZnS/BaSO4)	~ 80 %	4 000 – 12 000	3,5 – 4,5 %
Black (carbon black)	~ 20 – 50 %	3 000 – 15 000	1 – 4 %
Grey (various comb.)	~ 60 – 79 %	3 000 – 12 000	3 – 4,5 %
Other colors (org./inorganic or mixtures)	30 – 75 %	2 000 – 12 000	3 – 6 %

