

Concentrates for thermoplastics (1/2)

Product	Poly	mer	Dosage	Proc	ess				Mar	cets				Application remarks
	Polyethylene	Polypropylene	As supplied (%)	Extrusion	Injection molding	LFT	Blow molding	Film/fiber	Transportation	Consumer goods	Packaging	Agricultural films	Fibers and textiles	
Anti-fog and anti-static a	ditives													
BYK-MAX AF 4160*1	•		4.0-12.0	•				•				•		Efficient long lasting anti-fog additive; especially suitable for (L)LDPE film and sheets
BYK-MAX AS 4170	•		0.5-2.0	•	•			•	•	•	•			Long-lasting reduction in surface resistance; additionally providing anti-fog properties
BYK-MAX AS 4171		•	0.5-2.0	•	•			•	•	•	•			Long-lasting reduction in surface resistance; additionally providing anti-fog properties
Anti-scratch additives														
BYK-MAX ASC 4181	•	•	0.5-1.0	•	•				•	•				Silicone-free surface additive; improvement of scratch resistance and surface slip
BYK-MAX ASC 4182		•	1.0-3.0	•	•				•	•				Improvement of scratch resistance and surface slip
Flame retardant additives														
BYK-MAX FR 4143*2	•	•	15.0-25.0	•	•				•	•				Halogen-free additives; formation of insulating intumescent protective layer
BYK-MAX FR 4144	•	•	2.0-5.0	•					•	•				Flame retardant synergists for HFFR formulations; improvement of dripping behavior and char formation
Heat stabilizers														
BYK-MAX HS 4301		•	1.5-3.0	•	•	•	•	•	•					LTHA of more than 1000 hours at 150 °C (e.g. in underhood application)
BYK-MAX HS 4302		•	1.5-4.0	•	•	•	•	•	•	•			•	LTHA of more than 1000 hours at 150 °C (e.g. in underhood application)
BYK-MAX HS 4303		•	1.5-3.0	•		•			•	•				LTHA of more than 1000 hours at 150 °C; especially suitable for GMT applications
BYK-MAX HS 4332*3		•	1.0-3.0					•					•	Specifically designed for artificial turf applications
BYK-MAX HS 4334* ³		•	1.5-3.0	•	•	•	_		•	•				LTHA of more than 1000 hours at 150 °C (e.g. in structural applications); especially suitable for multiple heat processes
Heat stabilizers and coup	ing age	nts (multifunctio	n)										
BYK-MAX HS 4342*3		•	2.0-4.0	•	•	•			•	•				LTHA of more than 1000 hours at 150 °C; excellent glass fiber bonding in PP-GF (e.g. in structural applications)
BYK-MAX HS 4344*3		•	2.0-4.0	•	•	•			•	•				LTHA of more than 1000 hours at 120 °C; excellent glass fiber bonding in PP-GF (e.g. in structural applications)
BYK-MAX HS 4350		•	2.0-4.0	•	•	•			•	•				LTHA of more than 1000 hours at 150 °C; excellent glass fiber bonding in PP-GF (e.g. in structural applications)

Concentrates for thermoplastics (2/2)

Product	Poly	mer	Dosage	Process Markets										Application remarks
	Polyethylene	Polypropylene	As supplied (%)	Extrusion	Injection molding	Ш	Blow molding	Film/fiber	Transportation	Consumer goods	Packaging	Agricultural films	Fibers and textiles	·
Light stabilizers														
BYK-MAX LS 4125		•	0.5-2.0	•	•		•	•	•	•		•	•	Outstanding for products with proportionally large surfaces (e.g. thick film, thick-wall products)
Nucleation additives														
BYK-MAX NU 4230 LDPE	•		2.0-5.0	•	•		•	•	•	•	•			Optmium balance between increased production speed and improved physical properties
BYK-MAX NU 4230 PP		•	1.0-3.0	•	•		•	•	•	•	•			Optmium balance between increased production speed and improved physical properties
BYK-MAX NU 4232		•	1.0-3.0	•	•		•	•	•	•	•			Designed for maximum increase of production speed
Odor reduction additives														
BYK-MAX OR 4206	•		0.5-2.0	•	•				•	•	•	_		Odor-absorbing to neutralize unpleasant odors especially in recycling systems
BYK-MAX OR 4207		•	0.5-2.0	•	•				•	•	•			Odor-absorbing to neutralize unpleasant odors especially in recycling systems
Processing additives														
BYK-MAX P 4104	•	•	0.8-2.0	•	•		•	•	•	•	•			Polymeric processing aid for reduced friction and viscosity, less melt fractures and higher throughput
BYK-MAX P 4200	•	•	0.5-2.0	•	•		_		•	•	_	_		Stripping agent for VOC and odor reduction for polyolefin recycling systems. Vacuum degassing required for optimum performance
Slip agents														
BYK-MAX SA 4190	•	•	0.3-1.0	•	•		•	•		•	•	•		Increasing surface slip and providing anti-blocking properties; better mold release in injection molding
BYK-MAX SA 4191		•	0.75-2.0	•	•		•	•		•	•	•		Increasing surface slip and providing anti-blocking properties; better mold release in injection molding
Specialties														
		-	> 20.0											Preventing formation of "black spots" during idleness of extrusion lines

Abbreviations

GFGlass fiberGMTGlass mat thermoplastic

LFT Long fiber thermoplastic

LTHA Long term heat aging

HFFR Halogen-free flame retardant **PP** Polypropylene

For additional information on additives and technical topics, please contact us: **Thermoplastics.BYK@altana.com**



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