

# QUALITY PERFORMS.



**Solutions** for versatile applications  
Additives for thermoplastics

**QUALITY WORKS.**

**LANXESS**  
Energizing Chemistry

# ADDITIVES FOR THERMOPLASTICS

Additives	Chemical description	PVC-U	Cellulose	TPU	PE	PP	TPE	PS	PC	PC/ABS	POM	PLA	PET	PBT	PA	Thermosets	Food contact*	Characteristics
<b>Plasticizer / processing aid</b>																		
Uniplex 171	o/p-Toluene sulfonamide															■		Especially suitable for thermosets
Uniplex 214	N-n-butylbenzene sulfonamide														■			Preferred plasticizer for polyamide
Uniplex 809	PEG di-2-ethylhexanoate												■	■				Liquid
Uniplex 810	PEG dilaureate												■	■	■			Liquid above 24 °C
Triacetin	Glycerol triacetate		■														■	Bonding of cellulose acetate fibers
Uniplex 512	Neopentyl glycol dibenzoate												■	■				Solid plasticizer
Uniplex 80	Triethyl citrate		■															Processing aid and plasticizer
Uniplex 83	Tri-n-butyl citrate		■															Multi-purpose citrate
Baymod® PU	Polyester urethane	■									■						■	Plasticizing polymer for excellent mechanical properties
<b>Catalyst</b>																		
Addocat® 201	Dibutyltin dilaureate (DBTL)			■														Accelerates urethane bonding formation
<b>Crosslinking agents</b>																		
Addolink® 30/10	Hydroquinone (2-hydroxyethyl) ether																	Outstanding mechanical properties
Addolink® THPE	1,1,1-Tris (parahydroxyphenyl) ethane								■									Excellent blow molding and extrusion
<b>Hydrolysis stabilizers</b>																		
Stabaxol® I	Monomeric carbodiimide			■								■	■					Excellent extension of material service life
Stabaxol® L	Monomeric carbodiimide			■								■	■					Excellent extension of material service life
Stabaxol® P 200	Oligomeric carbodiimide			■														Excellent extension of material service life, liquid, water-soluble
Stabaxol® P	Polymeric carbodiimide			■			■				■	■	■	■	■			Excellent extension of material service life
Stabaxol® P 100	Polymeric carbodiimide			■			■				■	■	■	■	■			Excellent extension of material service life
Stabaxol® P 110	Polymeric carbodiimide			■			■				■	■	■	■	■			Excellent extension of material service life, particularly suitable for PLA
<b>Antistatic agents</b>																		
Mersolat® H 95	Sodium alkane sulfonate	■				■											■	Flakes for long-term antistatic properties
Mersolat® H 30, 40 and 68	Sodium alkane sulfonate solutions	■				■											■	Water-based solutions for temporary antistatic properties
<b>Chemical blowing agents</b>																		
Genitron® EP Extrusion	Azodicarbonamide preparations	■		■	■	■	■	■										Efficient blowing agents for extrusion / injection molding
Genitron® Endothermic	Sodium bicarbonate preparations	■		■	■	■	■	■									■	ADC-free coating / extrusion / injection molding
Genitron® Masterbatches	Masterbatches of chemical blowing agents	■		■	■	■	■	■										Dust-free concentrates for ease of handling / improved dispersion
Genitron® Exothermic	Azodicarbonamide preparations	■		■	■	■	■	■										Efficient blowing agents for coating / extrusion / injection molding
<b>Flame retardants – phosphorus-based</b>																		
Amgard® CU	Organic phosphonate												■		■			Designed especially for a durable FR treatment of polyester fibers
Amgard® CT	Organic phosphonate												■		■			Low viscous version of Amgard® CU
Disflamoll® TP	Triphenyl phosphate		■					■		■							■	Supply form: pellets or melt
Disflamoll® DPK	Cresyl diphenyl phosphate		■	■													■	Excellent flame retardance
Disflamoll® DPO	2-Ethylhexyl diphenyl phosphate		■														■	Light-fast
Disflamoll® TOF	Tris (2-ethylhexyl) phosphate		■															Excellent cold flexibility, alternative to oil-based processing aids
Disflamoll® 51092	Butylated triphenyl phosphate		■	■						■							■	Excellent flame retardance, low odor
Reofos® 35	Isopropylated triphenyl phosphate		■	■													■	Low viscosity
Reofos® 50	Isopropylated triphenyl phosphate		■	■													■	Excellent flame retardance
Reofos® 65	Isopropylated triphenyl phosphate		■	■													■	Excellent flame retardance
Reofos® 95	Isopropylated triphenyl phosphate		■	■													■	Low volatility
Uniplex FRX 44-94	N- and P-containing powder blend				■		■										■	Fine particle size and light-fast
<b>Flame retardants – brominated</b>																		
BA-59P™	Tetrabromobisphenol A																■	Reactive flame retardant for epoxies
BC-52™	Phenoxy-terminated carbonate oligomer								■	■				■				High thermal stability
BC-58™	Tribromophenoxy-terminated carbonate oligomer								■	■				■				High bromine content
Emerald Innovation™ 3000	Brominated styrene butadiene copolymer							■										Polymeric HBCD replacement for XPS and EPS
Firemaster® BZ-54	Tetrabromophthalic anhydride derivative			■													■	Low volatility in automotive fogging tests, excellent hydrolytic stability
Firemaster® CP-44HF	Copolymer of dibromostyrene												■	■	■			Polymeric, good flow, improved blister resistance temperature
Firemaster® PBS-64HW	Poly (dibromostyrene)												■	■	■			Polymeric, higher glass transition temperature than PDBS-80™
Firemaster® 2100R	Decabromodiphenyl ethane			■	■	■	■	■	■	■				■	■			Excellent balance of physical properties, flammability performance and processability
PDBS-80™	Poly (dibromostyrene)												■	■	■			Polymeric, excellent flow, higher thermal stability than PBS-64HW and CP-44HF
PHT4™	Tetrabromophthalic anhydride																■	Intermediate for flame retardant polymer production, high bromine content, powder
PHT4-Diol™	Tetrabromophthalate diol			■														Intermediate for flame retardant polymer production, excellent compatibility with a broad range of commercial polyols
PHT4-Diol™ LV	Tetrabromophthalate diol			■													■	Intermediate for flame retardant polymer production, low viscosity version of PHT4-Diol™
PH-73FF™	2,4,6-Tribromophenol																	Intermediate for flame retardant polymer production, can be used as flame retardant for epoxies
Uniplex FRP-45	Bis-(2-ethylhexyl) tetrabromophthalate						■											Good thermostability, good hydrolytic stability, low volatility
Uniplex FRP-64	Poly (2,6-dibromophenylene oxide)												■	■	■			Brominated polymer, little discoloration of the compound

\* More and detailed information on request <sup>1</sup> Particularly PA 6



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Unless specified to the contrary, the values given have been established on standardized test specimens. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

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