



Biesterfeld
Spezialchemie

Product Portfolio
Polymer Additives

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Our Partners for Polymer Additives



Brominated Flame Retardants

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Firemaster® 2100R	Lanxess	Decabromodiphenyl ethane	84852-53-9	Additive flame retardant for PP, PE, PS, PBT, EPDM, UP, EP a. o. applications
PDBS-80™	Lanxess	Polydibromostyrene	88497-56-7	Polymeric flame retardant for PA, PBT, PET
PHT4™	Lanxess	Tetrabromophthalic anhydride	632-79-1	Reactive flame retardant for PUR, UP a. o. applications
PHT4-Diol™	Lanxess	Tetrabromophthalate diol	20566-35-2	
PHT4-Diol LV™	Lanxess	Tetrabromophthalate diol	20566-35-2	Reactive flame retardant for EP, PC, PS, ABS a. o. applications
BA-59P™	Lanxess	Tetrabromobisphenol A	79-94-7	
BC-52™	Lanxess	Brominated aromatic carbonate oligomer	94334-64-2	Polymeric flame retardant for PBT, PET, PC, PS, ABS, SAN a. o. applications
BC-58™	Lanxess	Brominated aromatic carbonate oligomer	71342-77-3	Polymeric flame retardant for PBT, PET, PC, PS, ABS, SAN a. o. applications
BDDP of TBBA		Tetrabromobisphenol A bis (2,3-dibromopropyl ether)	21850-44-2	Additive flame retardant for polyolefins

Phosphorous Flame Retardants

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Emerald Innovation™ NH-1	Lanxess			Liquid flame retardant for PUR, PVC, coatings, adhesives a. o. applications
Reofos® 35	Lanxess	Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5 %]	68937-41-7	Flame retardant plasticizer for PVC, phenolic laminates
Reofos® 50	Lanxess		68937-41-7	
Reofos® 65	Lanxess		68937-41-7	
Reofos® 95	Lanxess		68937-41-7	
BDP		Aromatic polyphosphate	5945-33-5	High molecular liquid flame retardant for PC, PC/ABS, PC/HIPS a. o. applications
BDP LV		Aromatic polyphosphate	5945-33-5	Low viscous version of BDP for application in PUR, EP a.o. resins
RDP		Resorcinol diphosphate	57583-54-7	Liquid flame retardant for PC, PC/ABS, PPO/HIPS a. o. applications
PX-200	Daihachi	Resorcinol-bridged dixylyl phosphate	139189-30-3	High molecular, solid flame retardant for PC, PC/ABS, PC/HIPS and in PUR, Epoxy, Acrylic a. o. resins

HFFR (Halogen Free Flame Retardants)

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
BLG	RMC Remacon	Expandable graphite	12777-87-6	Inorganic intumescent system for PUR, fire protection a. o. applications
EPFR-100 A	Presافر	Ammonium polyphosphate (APP) based intumescent system		HFFR for polyolefins with antidripping agent
EPFR-100 D	Presافر			HFFR for polyolefins without antidripping agent
MCA-15	Presافر	Melamincyanurate	37640-57-6	HFFR for TPE, TPU
MCA-25	Presافر		37640-57-6	HFFR for PA, PBT
MCA-50	Presافر		37640-57-6	HFFR for PA
EPFR-APP-Series	Presافر	High molecular APP with different coatings Carbonyl and acylate modified polyolefins Masterbatch system based on modified polyolefins combined with HFFR		HFFR for intumescent systems
Daiguard 850	Daihachi			HFFR with highest P content, high heat resistance and special FR mechanism for TPU, PUR, adhesives, paint & coating a. o. applications

FR Synergists

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Zinfram® CB	SCL Italia	Calcium borate	12040-58-3	Alternative to antimonytrioxide, reduction of smoke density, smoke toxicity and heat release rate; synergist for Polymer, Rubber a. o. applications
Zinfram® ZHS	SCL Italia	Zinc hydroxystannate	12027-96-2	Alternative to antimonytrioxide, reduction of smoke density, smoke toxicity and heat release rate; synergist for PVC, UP, PUR, Polyolefins, EP a. o. applications
Zinfram® ZS	SCL Italia	Zinc stannate	12036-37-2	Alternative to antimonytrioxide, reduction of smoke density, smoke toxicity and heat release rate; flame retardant and synergist for PA, PBT, PP a. o. applications
D-Pyre®	Bioenvision	Polyhedral Oligomer Silsesquioxanes (POSS)		Synergistic FR with antidripping effect, enables ATO replacement, application in PUR, PVC, PP, UP, VE, EP, a.o.
ATO		Antimonytrioxide	1309-64-4	Smoke Suppressant

Slip & Antiblock Agents

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Innoslip E	Pathwel Co., Ltd.	Erucamide	112-84-5	Processing aid, slip and antiblock agent for plastics
Innoslip O	Pathwel Co., Ltd.	Oleamide	301-02-0	
EBS	ChemPlasa	Ethylene-Bis-Stearamide	68390-94-3	

Other Special Additives*

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
INDOPOL®	Ineos	Polybutene/PIB	9003-29-6	Plasticizer and tackifier
Cellcom®	Kumyang	Blowing Agents		Exothermic, endothermic and modified blowing agents systems
GNP, GP	RMC Remacon	Natural and synthetic graphite	7782-42-5	Graphite for thermal and electrical conductivity
THEIC		Tris (2-hydroxyethyl) Isocyanurate	839-90-7	PVC Stabilizer

*Selection; further information on special additives are available on request

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