## QUALITY PROTECTS.



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Flame retardants	Chemical description	M M	<u> </u>	Polyu Rigid	Flex	Poly	유   표   단   편   왕	AB A	[ ] 2	₹ X	EPS E	P P		HTPA		5	를 물	5 🖺	뿝	oth Cell	Syn	Vo	Highlights
Flame retardants – phospl	horus-based																						
Amgard® CT	Organic phosphonate											Т					Т	Т				•	Designed especially for polyester fibers, durable FR treatment
Amgard® CU	Organic phosphonate																						Designed especially for polyester fibers, durable FR treatment
Disflamoll® 51036	Phosphate ester blend																			-   -			Especially designed for artificial leather
Disflamoll® 51092	Butylated triphenyl phosphate																						Excellent flame retardance, low odor
Disflamoll® DPK	Cresyl diphenyl phosphate																				•		Excellent flame retardance
Disflamoll® DPO	2-Ethylhexyl diphenyl phosphate						-													-			Excellent plasticizing properties, light-fast
Disflamoll® TKP	Tricresyl phosphate																						Very low PVC-gelling temperature
Disflamoll® TKP-P	Tricresyl phosphate																						Purer version of TKP, especially for non-plastic applications
Disflamoll® TOF	Tris-(2-ethylhexyl) phosphate						-																Excellent cold flexibility, alternative to oil-based processing aids
Disflamoll® TP	Triphenyl phosphate									•													Little plasticizing efficiency, supply form pellets or melt (melting point >48 iÆC)
Emerald Innovation® NH-1	Proprietary																						Excellent scorch resistance
Levagard® 3000	Oligomeric phosphate ester																						Compatible with polyether and polyester polyols
Levagard® 4090 N	N,N-hydroxyethylaminoethane phosphonic acid ester			•																			Reactive product
Levagard® PP	Tris (2-chloroisopropyl) phosphate (TCPP)			•														•					CI / P-synergism, excellent efficiency
Levagard® TEP-Z	Triethyl phosphate																•	•					High phosphorus content, very low viscosity
Reofos® 1800	Isopropylated triphenyl phosphate																			-			Special quality available on request
Reofos® 35	Isopropylated triphenyl phosphate																		•	-			Good low-temperature properties, high plasticizing efficiency, fast gelation
Reofos® 50	Isopropylated triphenyl phosphate																						High plasticizing efficiency, fast gelation
Reofos® 65	Isopropylated triphenyl phosphate																						Imparts good electrical and oil resistance
Reofos® 95	Isopropylated triphenyl phosphate																						Imparts good electrical and oil resistance, low volatility
Flame retardants – bromi	nated																						
BA-59P	Tetrabromobisphenol A								•									•   •	ı				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® 3000¹)	Brominated styrene butadiene copolymer																						Polymeric, HBCD replacement for XPS and EPS
Firemaster® CP-44HF	Copolymer of dibromostyrene												•	• •	•								Low molecular weight, polymeric, better flow, higher 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, higher thermal stability than PBS-64HW and 44-HF
PHT-4®	Tetrabromophthalic anhydride																						High bromine content, crystall powder, reacts with unsaturated polymer
PHT-4® Diol	Tetrabromophthalate diol																						Reactive, excellent compatibility with a broad range of commercial polyols and blowing agents
PHT-4® Diol LV	Tetrabromophthalate diol																						Low-viscosity version of PHT-4 Diol, improved process handling and storage characteristics
PH-73FF	2,4,6-Tribromophenol																						Intermediate, can be used as a flame retardant for epoxies

■ Recommended ■ Suitable 1) Emerald Innovation® 3000 is based on technology licensed from DuPont.

2 LANXESS – Flame retardants product guide 3



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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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