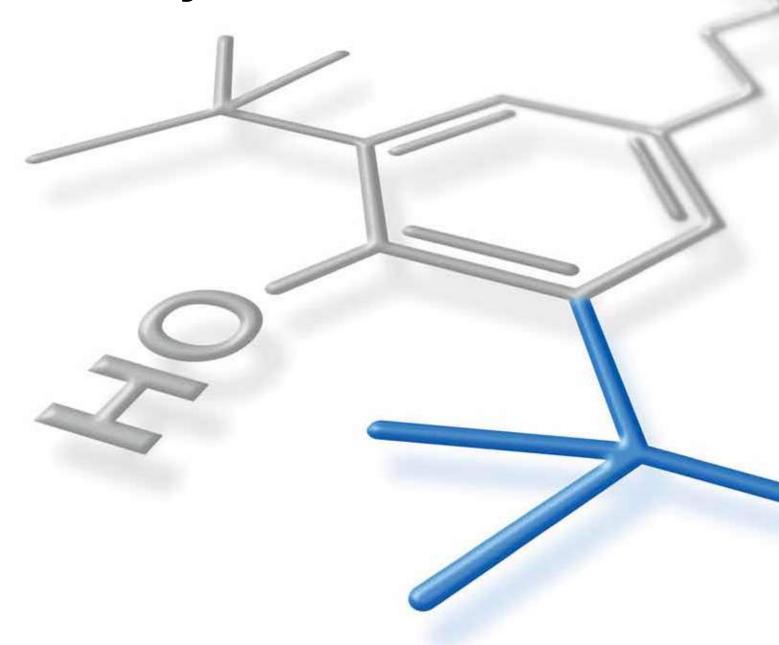
Process and Thermal Stabilizers

for Polyolefins





				mol		i i extrusion			molding				
	Product form	Molecular weight (g/mol)	Melting point °C	General	Filled	Pipe/sheet/profiles	Yarn, BCF	Nonwoven	Tapes/monofilaments	Film	HD-, LLD-PE general	LLD-PE rotomolding	Pipe
Processing & thermal stabilize	zers												
Irgafos® 126	Р	604	≤160										
Irgafos [®] 168	P, FF	647	183 – 186	•	-	•	-	-	•	•	•	•	-
Irganox® 1010	P, FF	1178	110 – 125	•	-	•			•	-	-	•	-
Irganox® 1035	P, FF	643	63 – 78										
Irganox® 1076	P, FD, M	531	50 – 55										
Irganox [®] 1330	Р	775	240 – 245			•			•				
Irganox [®] 1425 WL	Р	NA	NA										
Irganox® 3114	Р	784	218 – 223		-								
Irganox [®] B 215	P, FF	NA	NA	•	•	•			•	•	•	•	
Irganox® B 225	P, FF	NA	NA	-	-	•			•		•		-
Irganox [®] B 501 W	P, FF	NA	NA										
Irganox® B 561	P, FF	NA	NA								•		
Irganox [®] B 900	P, FF	NA	NA										
Irganox® E 201	L	431	1 – 4										
Irganox® MD 1024	Р	553	221 – 232										•
Irganox® PS 800	FL	515	39 – 41										
Irganox® PS 802	FL	683	64 – 67	•	-	•							
Irganox [®] XT 500	Р	NA	NA							-			
Irgastab® FS 210	FF	NA	NA					-					
Irgastab® FS 301	FF	NA	NA		-		-	•					
Irgastab® FS 410	FF	NA	NA				-	-					
Irgastab [®] FS 533	FF	NA	NA				-	-					
Irgastab [®] FS 811	FF	NA	NA	•	•								
Irgastab [®] RM 68	FF	NA	NA									•	
Hycite® 713	Р	NA	NA										

Hycite®: Registered trademark of Clariant International Ltd.

NA: Not Applicable

BASF product forms

Food Contact Approval (FCA) Indicator

O no FCA, can be used

- no FCA, recommended
- $\hfill\Box$ FCA in at least one country, can be used
- FCA in at least one country, recommended



FD/FDL Free Flowing Dust Free



PE	extrusion				
PE, PE-x cable	Tapes/monofilaments	HDPE film	LD-/EVA, LLD-PE film	LD-, LLD-PE, EVA agro	Key attributes
		•			High performance, highly compatible phosphite; low color
•	•	•	•	•	Hydrolytically stable phosphite, maintains color properties
•	-	•			High molecular weight, phenolic antioxidant (AO); extends long-term thermal stability (LTTS)
•					Phenolic AO for cross-linked or carbon black containing systems (i.e. cable compounds)
			-	•	Highly compatible, low-color phenolic AO
					High molecular weight extraction resistant phenolic AO
					Phenolic AO with high extraction resistance; polyethylene wax carrier
					Non-discoloring phenolic AO; high extraction resistance
	-	•			Synergistic phenol/phosphite blend, medium phosphite content, for a balanced processing and LTTS
	•	•			Synergistic phenol/phosphite blend with extended LTTS
					Synergistic phenol/phosphite blend for PP fiber
		•			Synergistic phenol/phosphite blend for demanding process conditions
			•	•	Synergistic phenol/phosphite blend with high phosphite level
					Vitamin E, a high efficiency phenolic AO with consumer appeal and excellent MFI stability
•					High performance phenolic AO and metal deactivator (Cu inhibitor)
•					Synergist extending the LTTS of phenolic AOs
					Synergist extending the LTTS of phenolic AOs
					Stabilization system for BOPP films
					Phenol-free basic LTTS; low color; gas fade resistant
					Phenol-free basic LTTS; low color; gas fade resistant
					Phenol-free basic LTTS; low color; gas fade resistant
					Phenol-free basic LTTS; gas fade resistant
					Phenol-free basic LTTS
					Stabilization system for rotomolded applications with improved processing window
					Acid scavenger







FL Flakes

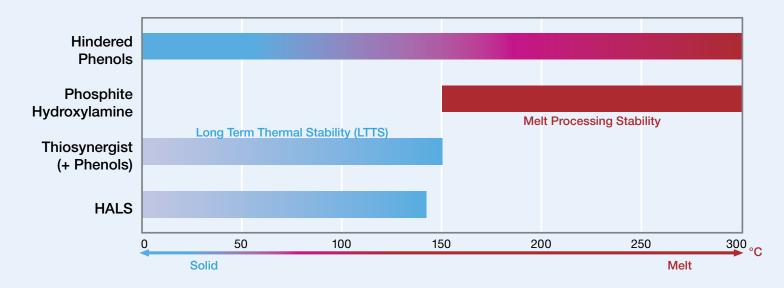
Further Product Forms

AD Aqueous Dispersion AR Attrition Resistant DF Dust Free, Free Flowing FΒ Free Flowing Beads G Granule

Liquid LD Low Dust Μ Melt

Stabilizers are used at various stages in a polymer life-cycle. They are primarily used to prevent oxidation and degradation of polymer chains. Stabilizers play an imminent role in all melt processing steps of polymer resins where temperatures well

above 150°C are reached, though for limited periods of time. Ultimately, stabilizers will maintain the mechanical and aesthetic properties of plastic items and enhance their long term thermal stability.



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