

Calendering

MARK[®] Metal Soap Stabilizers and Epoxy Zinc Stabilizers

Product Group		CaZn										Zn		BaZn										EZ	
		CZ 108	CZ 118 E	CZ 122 / V	CZ 122 E	CZ 123	CZ 402	CZ 405	CZ 408	CZ 2051	CZ 2060	Z 2020	Z 2032 PF	BZ 830	BZ 855	BZ 955	BZ 861	BZ 961	BZ 865	BZ 965	BZ 882	BZ 891	BZ 991	EZ 781	
Supply Form		L	L	P	P	P	L	L	L	S	S	S	P	L	L	L	L	L	L	L	L	L	L	L	
Appro- val*	EU	yes	yes	no	yes	no	no	no	no	yes	no	yes	no	no	no	no	no	no	no	no	no	no	no	no	
	FDA	yes	yes	no	yes	no	no	no	no	yes	no	yes	no	no	no	no	no	no	no	no	no	no	no	no	
Application	Rigid	-	-	1	1	1	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	
	Semi-rigid	-	-	1	1	1	2	2	2	-	1	1	1	2	1	1	1	1	1	1	1	1	1	-	
	Plasticized	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Properties	Initial color	1	1	1	1	1	2	2	2	1	1	2	2	3	1	1	1	1	1	1	1	1	1	2	
	Color retention	2	1	2	2	2	2	2	2	1	1	2	3	2	2	2	1	1	1	1	1	1	1	3	
	Long term heat stability	3	1	2	2	2	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1	2	2	2	
	Transparency	1	2	1	1	1	2	2	2	1	1	2	-	2	1	1	1	1	1	1	1	1	2	2	1
	Lubricating effect	1	2	2	2	3	2	2	2	2	3	3	2	2	1	1	2	2	2	2	2	2	2	2	-
	Plate-out-behavior	1	2	2	2	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1
	ESBO-synergism	2	1	1	1	1	1	1	1	2	1	1	2	3	2	2	1	1	1	1	1	1	1	1	2
	Fogging-behavior	3	1	1	1	1	3	3	3	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	1
	Odor (plast. PVC)	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3	2	2	2	2	2	2	2	2	1
	Odor (rigid PVC)	-	-	1	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Printability	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	Weathering stability	3	2	-	-	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	2
	Phenol free	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	no	yes	no	yes	no	yes	no	no	yes	yes
	Ageing properties (120°C)	3	3	3	3	3	3	3	3	2	2	2	1	3	3	3	3	3	3	3	3	3	2	2	1
Performance with E-PVC	-	2	-	-	-	3	3	3	3	2	1	-	3	3	3	2	2	2	2	2	2	2	2	1	

L liquid P paste (contains ESBO) S solid

1 very good 2 good 3 satisfactory

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Extrusion MARK[®] Metal Soap Stabilizers and Epoxy Zinc Stabilizers

Product Group		CaZn														Zn		BaZn						EZ						
		CZ 11 / V	CZ 11 G	CZ 113 / V	CZ 118 E	CZ 122 / V	CZ 122 E	CZ 123	CZ 402	CZ 405	CZ 408	CZ 97	CZ 2000	CZ 2026	CZ 2051	CZ 2060	Z 2020	Z 2032 PF	BZ 830	BZ 855	BZ 955	BZ 861	BZ 961	BZ 865	BZ 965	BZ 891	BZ 991	EZ 781		
Supply Form		P	P	P	P	P	P	P	L	L	L	S	S	S	S	S	S	P	L	L	L	L	L	L	L	L	L	L		
Appro- val*	EU	yes	yes	yes	yes	no	yes	no	no	no	no	yes	no	yes	yes	no	yes	no	no	no	no	no	no	no	no	no	no	no	no	
	FDA	yes	yes	yes	yes	no	yes	no	no	no	no	yes	no	yes	yes	no	yes	no	no	no	no	no	no	no	no	no	no	no	no	
Appli- cation	Rigid	-	-	-	-	-	1	-	-	-	2	1	2	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-		
	Plasticized	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Properties	Initial color	3	3	2	1	1	1	1	2	2	2	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1	1	2	
	Color retention	-	-	2	2	2	2	2	2	2	2	3	1	1	1	1	2	3	2	2	2	1	1	1	1	1	1	1	3	
	Long term heat stability	-	-	3	2	2	2	3	1	1	1	2	2	1	1	1	1	1	2	2	2	1	1	1	1	1	2	2	2	
	Transparency	2	2	2	1	1	1	1	2	2	2	2	-	1	1	1	2	-	3	1	1	1	1	1	1	1	2	2	1	
	Lubricating effect	1	1	1	2	2	2	2	2	2	2	1	2	2	2	2	3	2	2	1	1	2	2	2	2	2	2	2	-	
	Plate-out-behavior	3	3	-	2	2	2	2	1	1	1	-	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	
	ESBO-synergism	2	2	2	1	1	1	1	1	1	1	1	2	2	2	1	1	2	3	2	2	1	1	1	1	1	1	1	2	
	Fogging-behavior	3	3	-	-	1	1	1	1	1	1	-	3	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	1
	Odor (plast. PVC)	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	2	3	3	2	2	2	2	2	2	2	1	
	Odor (rigid PVC)	-	-	-	-	1	1	1	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
	Printability	3	3	-	1	2	2	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	Weathering stability	-	-	-	1	-	-	2	1	1	1	-	1	2	2	2	3	3	1	1	1	1	1	1	1	1	1	1	2	
	Phenol free	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	no	yes	no	yes	no	yes	no	yes	yes	
	Ageing properties (120°C)	-	-	-	2	3	3	3	3	3	3	-	-	2	2	2	2	1	3	3	3	3	3	3	3	3	2	2	1	
Performance with E-PVC	-	-	-	-	-	-	-	3	3	3	-	-	3	3	2	-	-	3	3	3	2	2	2	2	2	2	2	1		

L liquid P paste (contains ESBO) S solid

1 very good 2 good 3 satisfactory

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Injection Molding

MARK® Metal Soap Stabilizers and Epoxy Zinc Stabilizers

Product Group		CaZn															Zn		EZ	BaZn											
		CZ 11 / V	CZ 11 G	CZ 113 / V	CZ 118 E	CZ 118 S	CZ 122 / V	CZ 122 E	CZ 123	CZ 402	CZ 405	CZ 408	CZ 97	CZ 2000	CZ 2026	CZ 2051	CZ 2060	CZ 2061	Z 2020	Z 2032 PF	EZ 781	BZ 830	BZ 855	BZ 955	BZ 861	BZ 961	BZ 865	BZ 965	BZ 891	BZ 991	
Supply Form		P	P	P	L	L	P	P	P	L	L	L	S	S	S	S	S	S	S	P	L	L	L	L	L	L	L	L	L		
Approval	EU	yes	yes	yes	yes	no	no	yes	no	no	no	no	yes	no	yes	yes	no	yes	yes	no	no	no	no	no	no	no	no	no	no	no	
	FDA	yes	yes	yes	yes	no	no	yes	no	no	no	no	yes	no	yes	yes	no	yes	yes	no	no	no	no	no	no	no	no	no	no	no	
Application	Rigid	-	-	-	-	-	-	1	-	-	-	-	1	2	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-		
	Plasticized	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Properties	Initial color	3	3	2	2	2	1	1	1	2	2	2	2	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1		
	Color retention	-	-	2	2	2	2	2	2	2	2	2	3	1	1	1	1	1	2	3	3	2	2	2	1	1	1	1	1		
	Long term heat stability	-	-	3	3	3	2	2	2	1	1	1	2	2	1	1	1	1	1	1	3	2	2	2	1	1	1	1	2	2	
	Transparency	2	2	2	-	-	1	1	1	2	2	2	2	-	1	1	1	1	2	-	1	3	1	1	1	1	1	1	1	2	2
	Lubricating effect	1	1	1	2	2	2	2	2	2	2	2	1	2	2	2	2	2	3	2	-	2	1	1	2	2	2	2	2	2	
	Plate-out-behavior	3	3	-	3	3	2	2	2	1	1	1	-	1	1	1	1	1	1	2	1	2	1	2	1	1	1	1	1	1	
	ESBO-synergism	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	1	1	1	2	2	3	2	2	1	1	1	1	1	1	
	Fogging-behavior	3	3	-	-	-	1	1	1	1	1	1	-	3	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	
	Odor (plast. PVC)	1	1	1	2	2	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	2	3	3	2	2	2	2	2	2	
	Odor (rigid PVC)	-	-	-	-	-	1	1	1	-	-	-	-	1	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	
	Printability	3	3	-	-	-	2	2	1	1	1	1	3	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	
	Weathering stability	-	-	-	2	2	-	-	2	1	1	1	-	1	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	
	Phenol free	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	no	yes	no	yes	no	yes	no	yes
	Ageing properties (120°C)	-	-	-	-	-	3	3	3	3	3	3	-	-	2	2	2	2	2	2	1	3	3	3	3	3	3	3	3	2	2
	Performance with E-PVC	-	-	-	-	-	-	-	-	3	3	3	-	-	3	3	2	2	-	-	1	3	3	3	3	2	2	2	2	2	

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Plastisols

MARK® CZ Metal Soap Stabilizers and Epoxy Zinc Stabilizers

Product Group		CaZn														Zn		EZ	
		CZ 11 / V	CZ 113 / V	CZ 122 / V	CZ 122 E	CZ 108	CZ 116	CZ 116 E	CZ 118 S	CZ 118 E	CZ 142	CZ 402	CZ 405	CZ 408	CZ 449	CZ 2039	Z 2020	Z 2032 PF	EZ 781
Supply Form		P	P	P	P	L	L	L	L	L	L	L	L	L	L	S	S	P	L
Approval*	EU	yes	yes	no	yes	yes	no	yes	no	yes	no	no	no	no	no	no	yes	no	no
	FDA	yes	yes	no	yes	yes	no	yes	no	yes	no	no	no	no	no	no	yes	no	no
Application	Compact	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Foamed	2	2	2	2	2	2	2	2	2	1	2	2	2	1	2	1	1	1
Properties	Initial color	2	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	2	1
	Color retention	3	2	2	2	1	3	3	2	2	1	2	2	2	2	2	2	3	3
	Long term heat stability	3	3	2	2	3	3	3	2	2	2	2	2	2	1	1	2	2	1
	Transparency	3	3	2	2	1	-	-	3	3	1	2	2	2	1	2	2	3	1
	PVC relevance	3	3	2	2	3	3	3	3	3	3	2	2	2	2	2	2	1	3
	ESBO-synergism	1	1	3	3	1	1	1	1	1	1	2	2	2	1	1	2	3	1
	Paste viscosity	3	3	3	3	2	3	3	2	2	2	2	2	2	2	1	3	3	2
	Kicking effect	2	2	3	3	3	2	2	2	2	2	3	3	3	2	2	3	2	3
	Weathering stability	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	2	2	2
	Odor	2	2	2	2	2	2	2	2	2	3	1	1	1	1	1	1	1	1
	Fogging-behavior	3	-	2	2	-	-	-	-	-	3	3	3	3	1	1	1	1	1
	Phenol free	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes	yes	yes	yes	yes	yes	yes	yes
Ageing properties (120°C)	-	-	3	3	-	-	-	-	-	3	3	3	3	1	1	2	1	1	
Remarks	Besides the influence of the stabilizer and the plasticizer used the plastisol viscosity depends to a great extent on the PVC type.																		

L liquid P paste (contains ESBO) S solid

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1 very good 2 good 3 satisfactory

Plastisols

MARK[®] BZ Metal Soap and Mark[®] OBS[®] Stabilisers

Product Group		BaZn														Kicker				OBS				
		BZ 805	BZ 905	BZ 812	BZ 912	BZ 813	BZ 913	BZ 830	BZ 930	BZ 861	BZ 961	BZ 865	BZ 965	BZ 891	BZ 991	K 102	K 104	K 902	K 904	OBS 1100	OBS 1200	OBS 2302	OBS 2305	OBS 2405
Supply Form		L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Appro- val*	EU	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
	FDA	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Appli- cation	Compact	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	2	-	2	1	1	1	1	1
	Foamed	-	-	-	-	1	1	-	-	-	-	1	-	-	-	1	1	1	1	2	2	2	2	2
Properties	Initial color	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Color retention	2	1	1	1	1	1	2	2	1	1	1	2	1	1	1	2	1	2	2	2	1	2	2
	Long term heat stability	2	2	2	2	3	3	2	2	1	1	3	2	1	1	3	3	3	3	2	2	1	1	2
	Transparency	1	1	1	1	1	1	2	2	2	2	1	2	2	2	2	2	2	2	1	1	1	1	1
	PVC relevance	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	2	2	2	2	2
	ESBO-synergism	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	2	1	1	1	1	1
	Paste viscosity	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2
	Kicking effect	-	3	3	3	3	3	-	-	-	-	3	-	-	-	1	1	1	1	3	3	3	3	3
	Weathering stability	1	2	2	2	2	2	1	1	1	1	2	1	2	2	-	-	-	-	1	1	1	1	1
	Odor	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	1	2	1	2	1	2	1	1
	Fogging-behaviour	-	3	3	3	2	2	2	2	2	2	2	2	2	3	3	1	2	1	2	1	2	2	1
	Phenol free	no	no	no	yes	no	yes	no	yes	no	yes	no	no	no	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	Ageing properties (120°C)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1
	Remarks	Besides the influence of the stabilizer and the plasticizer used the plastisol viscosity depends to a great extent on the PVC type.																						

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Extrusion Blow Molding

MARK® Metal Soap Stabilizers

Product Group		CaZn																		BaZn																		
		CZ 11 / V	CZ 108	CZ 113 / V	CZ 118 S	CZ 118 E	CZ 122 / V	CZ 122 E	CZ 123	CZ 142	CZ 402	CZ 405	CZ 408	CZ 449	CZ 97	CZ 2000	CZ 2026	CZ 2039	CZ 2051	CZ 2060	BZ 805	BZ 905	BZ 812	BZ 912	BZ 813	BZ 913	BZ 830	BZ 855	BZ 955	BZ 861	BZ 961	BZ 865	BZ 965	BZ 882	BZ 891	BZ 991		
Supply Form		P	L	P	L	L	P	P	P	L	L	L	L	L	S	S	S	S	S	S	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
Appro- val*	EU	yes	yes	yes	no	yes	no	yes	no	no	no	no	no	no	yes	no	yes	no	yes	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no		
	FDA	yes	yes	yes	no	yes	no	yes	no	no	no	no	no	no	yes	no	yes	no	yes	no	yes	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no	
Appli- cation**	Rigid	-	-	-	-	-	1	1	1	-	-	-	-	-	2	1	2	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Plasticized	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Properties	Initial color	3	1	2	2	2	1	1	1	1	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1		
	Color retention	-	2	2	2	2	2	2	2	1	2	2	2	2	3	1	1	2	1	1	2	1	1	1	1	2	2	2	1	1	1	1	1	1	1	1		
	Long term heat stability	-	3	3	3	3	2	2	2	2	1	1	1	2	2	2	1	1	1	1	2	2	2	2	3	3	2	2	2	1	1	1	1	1	1	2	2	
	Transparency	2	1	2	-	-	1	1	1	1	2	2	2	1	2	-	1	2	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	2	2	2	
	Lubricating effect	2	1	1	2	2	2	2	2	2	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	
	Plate-out-behavior	3	1	-	3	3	2	2	2	2	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
	ESBO-synergism	2	2	2	2	2	2	2	2	2	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1	3	2	2	1	1	1	1	1	1	1	1	1	
	Fogging-behavior	3	3	-	-	-	1	1	1	3	1	1	1	1	-	3	1	1	1	1	1	3	3	3	3	2	2	3	3	3	3	3	3	3	3	3	3	
	Odor (plast. PVC)	1	1	1	2	2	1	1	1	2	1	1	1	1	1	-	1	1	1	1	1	3	3	3	3	3	3	2	3	3	2	2	2	2	2	2	2	
	Odor (rigid PVC)	-	-	-	-	-	1	1	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Printability	3	1	-	-	-	2	2	1	1	1	1	1	1	1	3	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	
	Weathering stability	-	3	-	2	2	-	-	-	1	1	1	1	1	1	-	1	2	1	2	2	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	
	Phenol free	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	no	yes	no	yes	no	yes	no	yes	no	yes	no	yes	no	yes	no	yes	
	Ageing properties (120°C)	-	3	-	-	-	3	3	3	2	3	3	3	1	-	-	2	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
	Performance with E-PVC	-	-	-	-	-	-	-	-	2	3	3	3	1	-	-	3	1	3	2	1	1	1	1	1	1	3	3	2	2	2	2	-	2	2	2	2	
Remarks																																						

L liquid P paste (contains ESBO) S solid

1 very good 2 good 3 satisfactory

*National approvals for chemicals may vary and the specific use in applications have to be observed and therefore please request actual regulatory information from our Regulatory Compliance

**with regard to the European Marketing & Use Directive and other national regulatory approvals

**Injection Blow Molding
and Film Blowing**

**MARK[®] Tin and
Metal Soap Stabilizers**

Product Group		BaZn						CaZn									
		BZ 855	BZ 955	BZ 861	BZ 961	BZ 865	BZ 965	CZ 11 / V	CZ 122 / V	CZ 122 E	CZ 123	CZ 118 S	CZ 118 E	CZ 402	CZ 405	CZ 408	CZ 2051
	Supply Form	L	L	L	L	L	L	P	P	P	P	L	L	L	L	L	S
Appro- val*	EU	no	no	no	no	no	no	yes	no	yes	no	no	yes	no	no	no	yes
	FDA	no	no	no	no	no	no	yes	no	yes	no	no	yes	no	no	no	yes
Appli- cation**	Rigid	-	-	-	-			-	1	1	1	-	-	-	-	-	-
	Plasticized	1	1	1	1			1	1	1	1	1	1	1	1	1	1
Properties	Initial color	1	1	1	1			3	1	1	1	2	2	2	2	2	1
	Color retention	2	2	1	1			-	2	2	2	2	2	2	2	2	1
	Long term heat stability	2	2	1	1			-	2	2	2	3	3	1	1	1	1
	Transparency	1	1	1	1			2	1	1	1	-	-	2	2	2	1
	Lubricating effect	1	1	2	2			1	2	2	2	2	2	2	2	2	2
	Plate-out-behavior	1	1	1	1			3	2	2	2	3	3	1	1	1	1
	ESBO-synergism	2	2	1	1			2	2	2	2	2	2	1	1	1	2
	Fogging-behavior	3	3	3	3			3	1	1	1	-	-	3	3	3	1
	Odor (plast. PVC)	3	3	2	2			1	1	1	1	2	2	1	1	1	1
	Odor (rigid PVC)	-	-	-	-			-	1	1	1	-	-	-	-	-	-
	Printability	1	1	1	1			3	2	2	2	-	-	1	1	1	1
	Weathering stability	1	1	1	1			-	-	-	-	2	2	1	1	1	2
	Phenol free	no	yes	no	yes	no	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
	Ageing properties (120°C)	3	3	3	3			-	3	3	3	-	-	3	3	3	-
Performance with E-PVC	3	3	2	2			-	-	-	-	-	-	3	3	3	-	
Remarks																	

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