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Technical Data Sheet: General Properties no. 440

Product group : Cone bags, CPP, Transparent / Printed, 40 my

DoC / TDS : no. 440

PP Cast polypropylene film

Overall migration

The level of the Overall Migration does not exceed 10 mg/dm2.

Global migration level	Made in accordance with the provisions of the Commission Regulation (EU) No. 10/2011 dated 14.01.2011 on materials and plastic products intended for contact with food, with later d, does **not exceed 10 mg / dm²**

Specific migration

Information on substances subject to restrictions:

▪ Annex I to Commission Regulation (EU) No 10/2011:

According to the information provided by the raw materials suppliers, available until now, some grades that can be used in the production of the film may contain:

o Substances subject to specific migration limit (SML), which will not be exceeded up to a thickness of 60µm (ratio 6 dm²/kg):

▪ Annex II to Commission Regulation (EU) No 10/2011:

Where applicable, specific migration restrictions set out in Annex II to Regulation (EU) No 10/2011, including those relating to metals, have been taken into account in the compliance assessment. Compliance with applicable limits is ensured under the intended conditions of use.

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Op al onze transacties en aanbiedingen zijn de algemene in- en verkoop- leverings en betalingsvoorwaarden van de Verpakkingsunie Nederland van toepassing. Deze voorwaarden zenden wij u graag gratis op verzoek toe.

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	FCM	ref.	CAS	SML mg/kg	Name	A dual-use substance
Information on substances with a specific migration limit in accordance with Regulation (EU) No 10/2011, including dual use substances:	-	-	-	-	Confidential substances from paints	No
	-	-	123-94-4	60	Glycerin monostearate E471	Yes
	-	-	7429-90-5	1	Aluminum	Yes
	19	39090	-	1,2	N, N-bis (2-hydroxyethyl) alkyl (C8-C18) amine	Yes
	20	39120	-	1,2	N,N-bis(2-hydroxyethyl) alkyl (C8-C18) amine hydrochlorides	No
	41	56486	-	60	Glycerol esters with aliphatic acids	Yes
	103	18100 55920	56-81-4	60	Glycerol	No
	106	24550 89040	57-11-4	60	Stearic acid	Yes
	106	24550 89040	1592-23-0	60	Calcium stearate E470	Yes
	139	14680 44160	77-92-9	60	Citric acid E330	Yes
	156	21130	80-62-6	6	Methyl methacrylate	No
	185	20440	97-90-5	0,05	Ethylene glycol dimethacrylate	No
	356	18820	592-41-6	3	1-hexene	No
	433	68320	2082-79-3	6	Octadecyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl) propionate	No
	496	71680	6683-19-8	-	Tetrakis [3-(3,5-di-tert-butyl-4-hydroxyphenyl)-profoate]pentaerythol	No
	504	86240	7631-86-9	60	Silicon dioxide E551	Yes
	592	34690	11097-59-9	-	Basic aluminum-magnesium carbonate	No
	610	93440	13463-67-7	60	Titanium dioxide (only white foils)	Yes
	652	38820	26741-53-7	0,6	Bis (2,4-di-tert-butylphenyl) pentaerythritol bisphosphate	No
	661	95360	27676-62-6	5	1,3,5-Tris (3,5-di-tert-butyl-4-hydroxy benzyl-1,3,5-triazine-2,4,6- (1H, 3H, 5H) -trione	No
	671	74240	3150-04-4	-	Tris(2,4-di-tert-butylphenyl) phosphate	No
	688	92560	38613-77-3	18	Tetrakis (2,4-di-tert-butyl-phenyl) -4,4'-biphenylslene diphosphonate	No
	760	83595	119345-01-6	18	Reaction product of di-tert-butyl phosphonate with biphenyl, obtained by condensation of 2,4-di-tert-butylphenol with the Friedel-Crafs reaction product of phosphorus trichloride and biphenyl)	No
	773	38840	154862-43-8	5	Bis (2,4-dicumylphenyl) pentaerthritol bisphosphite	No
	779	39815	182121-12-6	0,05	9,9-bis(methoxymethyl)fluorene	No
	783	55910	736150-63-3	60	Acetylated glycerides of monohydrogenated castor oil	No

Information on additional substances that limit contact with food

European Printing Ink Association (EuPIA) Exclusion Policy for Printing Inks and Related Products

Inks and film will not contain those materials excluded by the criteria or by specific description according to this Policy.[2] In particular, this excludes from use all materials classified according to the CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures as carcinogenic, mutagenic or toxic for reproduction in categories 1A or 1B with hazard statements H340, H350 or H360*, in addition to toxic or highly toxic materials with hazard statements H300, H301*, H310, H311*, H330, H331, H370 or H372* (* may be permitted if safe use can be demonstrated following risk assessment). Pigments based on compounds of Sb, As, Cd, Cr (VI), Pb, Hg, Se, certain dyes, solvents, plasticisers and miscellaneous materials are also excluded.

Heavy metals

Films with its components do not exceed limitation of substances as below:

- Cadmium < 0,002 mg/kg,
- Total migration La, Eu, Gd, Tb < 0,05 mg/kg
- Lead < 0,003 mg/kg
- Mercury < 0,007 mg/kg
- Aluminum < 1 mg/kg
- Barium < 1 mg/kg
- Cobalt < 0,05 mg/kg
- Lithium < 0,6 mg/kg
- Manganese < 0,6 mg/kg
- Nickel < 0,02 mg/kg
- *Chromium < 0,01 mg/kg*

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Parameters											
Nominal thickness			µm	ISO 4593	20 ± 8 %	25 ± 8 %	30 ± 8 %	35 ± 6 %	40 ± 6 %	45 ± 6 %	50 ± 6 %	55 ± 6 %
Nominal grammage			g/m²		18,1 ± 8 %	22,6 ± 8 %	27,6 ± 8 %	31,7 ± 6 %	36,2 ± 6 %	40,7 ± 6 %	45,3 ± 6 %	49,8 ± 6 %
Yield			m²/kg		54,7 ± 8 %	44,2 ± 8 %	36,8 ± 8 %	31,6 ± 6 %	27,6 ± 6 %	24,6 ± 6 %	22,1 ± 6 %	18,4 ± 6 %
Properties			Units	Test methods	Reference value							
Mechanical	Tensile strength	MD	N/mm²	ASTM D882 DIN EN ISO 527-1/3	45 min 18	45 min 30	45 min 30	45 min 30	50 min 35	50 min 35	50 min 35	50 min 35
		TD			22 min 12	25 min 15	30 min 15	30 min 20	35 min 25	35 min 25	35 min 25	45 min 35
	Elogation	MD	%		380 max 580	410 max 610	470 max 670	530 max 730	610 max 810	640 max 840	730 max 930	770 max 970
		TD			560 max 760	510 max 760	470 max 670	530 max 730	800 max 1000	900 max 1100	1000 max 1200	1050 max 1250
Optical	Haze		%	ASTM D1003 ISO 14782	2,2	2,4	2,6	2,7	2,8	3	3,1	3,2
	Glass		Glass unit	ASTM D2457 ISO 2813	85							
Coeff. of friction	N/N		-	ASTM D1894 DIN EN ISO 8295	0,15 max 0,45							
Treatment level			mN/m	ASTM D2578 ISO 8296	min. 36							

The CAST BF Film is for deep freezing applications. But not lower than -20 C.

Parameters					
Nominal thickness			µm	ISO 4593	40 ± 6 %
Nominal grammage			g/m²		36,2 ± 6 %
Properties			Units	Test methods	Reference value
Mechanical	Tensile strength	MD	N/mm²	ASTM D882 DIN EN ISO 527-1/3	45 min 35
		TD			20 min 15
	Elogation	MD	%		400 max 850
		TD			550 max 800
Optical	Haze		%	ASTM D1003 ISO 14782	4,8
	Glass		Glass unit	ASTM D2457 ISO 2813	80
Coeff. of friction	N/N		-	ASTM D1894 DIN EN ISO 8295	0,15 max 0,40
Treatment level			mN/m	ASTM D2578 ISO 8296	min. 36
Sealing temperature			°C	Internal	Max 135

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