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Technical Data Sheet: General Properties no. 360

Product group : Block - & Crossed Bottom bags, Flat bags / Side Gusseted bags

Transparent / PRINTED, 40 my

DoC / TDS : no. 360

Structure: BOPP film, biaxial orientated Polypropylene film

Properties	Method	Unit	Typical Values
Thickness	Internal Method	µm	40*
Unit weight	Internal Method	g/m²	36,4*
Water vapour permeability (WVTR)**	23°C – 85%RH DIN 53122	g/m²/24h	< 1
Oxygen permeability (OTR)**	ASTM D-3985 23°C - 0%RH	cm³/m²/d bar	1300
Heat seal range	Internal Method	° C	105 – 140
*....+/- 10%			
**....relating to the film material not to the bag			

Overall migration

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

The overall migration analyse was realized under the following conditions:

food simulant	test conditions	correspond with food contact conditions
Simulant D2 – alternative simulant ethanol 95% instead of Olive Oil	10 days / 60°C***	Long term storage at room temperature or below***

**** According to 10/2011/EC – chapter 3, paragraph 3.1, table 3 the overall migration testing under test OM2 ("Any long term storage at room temperature or below") has to be done with the testing conditions 10d/40°C. These conditions are covered by the more stringent test conditions 10T/60°C that we have used for the overall migration testing.

Specific migration

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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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Adhesive:

The used adhesive is in conformity with at least one of the following regulations:

-10/2011/EC or
-FDA 175.105 or
- Specific BfR- recommendation on adhesives

In the absence of a specific EU regulation for adhesives Article 16 of the framework Regulation (EC) No. 1935/2004 permits other European directives or national regulations for declarations of compliance.

The following substances that could be part of this specification are restricted to specific migration limits or other limits according to 10/2011/EC:

CAS No.:	FCM substance No.:	Substance name	SML(mg/kg) & other restrictions
-	-	Aluminium	1
-	-	Isocyanates	ND / 1 mg/kg in final product expressed as isocyanate moiety
-	19	N,N-Bis(2-hydroxyethyl)alkyl (C8-C18)amin	SML(T) = 1,2
-	20	N,N-Bis(2-hydroxyethyl)alkyl (C8-C18)aminhydrochloride	SML(T) = 1,2
-	78	Polyethylenglycol (EO = 1-50)-monoalkylether (linear und verzweigt, C 8-C 20)-sulfat, Salze	5
-	95	white mineral oils, paraffinic, derived from petroleum based hydrocarbon feedstocks	No SML according to10/2011/EC Average molecular weight not less than 480 Da. Viscosity at 100 °C not less than 8,5 cSt (8,5 × 10 -6 m 2 /s). Content of mineral hydrocarbons with Carbon number less than 25, not more than 5 % (w/w).
000075-21-8	129	Ethylenoxid	ND
000077-90-7	138	Tri-n-butylacetylcitrat	60
000077-99-6	141	1,1,1-Trimethylolpropan	6
000079-10-7	147	Acrylsäure	6
000080-62-6	156	Methylmethacrylat	6
000096-33-3	176	Methylacrylat	6
000097-90-5	185	Ethylenglykoldimethacrylat	0,05
0000103-11-7	206	2-Ethylhexylacrylat	0,05
000104-76-7	209	2-Ethyl-1-hexanol	30
000107-21-1	227	Ethylenglykol	30
000109-43-3	242	Dibutylsebaca	60
000122-20-3	292	Triisopropanolamin	5
000123-31-9	295	1,4-Dihydroxybenzene	0,6
000126-98-7	312	Methacrylnitril	ND
000822-06-0	372	Hexamethylendiisocyanat	ND / 1 mg/kg in final product expressed as isocyanate moiety
002082-79-3	433	Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionat	6
002682-20-4	451	2-Methyl-4-isothiazolin-3-on	0,5
007631-90-5	505	Natriumbisulfit	10
026741-53-7	652	Bis(2,4-di-tert-butylphenyl) pentaerythritoldiphosphit	0,6

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0027676-62-6	661	1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazin-2,4,6(1H,3H,5H)-trion	5
038613-77-3	688	Tetrakis(2,4-di-tert-butylphenyl)-4,4'biphenylen-diphosphonit	18
040601-76-1	689	1,3,5-Tris(4-tert-butyl-3-hydroxy-2,6-dimethylbenzyl)-1,3,5-triazin-	6
061788-89-4	705	Dimere von ungesättigten Fettsäuren (C 18), nicht hydriert, destilliert und nicht destilliert	0,05
068783-41-5	733	Dimere von ungesättigten Fettsäuren (C 18), hydriert, destilliert und nicht destilliert	0,05
119345-01-6	760	Reaktionsprodukt von Di-tert-butylphosphonit mit Biphenyl, erzeugt durch Kondensation von 2,4-Di-tert-butylphenol mit dem Friedel-Crafts-Reaktionsprodukt aus Phosphortrichlorid und Biphenyl	18
154862-43-8	773	Bis(2,4-dicumylphenyl) pentaerythritoldiphosphit	5
182121-12-6	779	9,9-Bis(methoxymethyl)fluoren	0,05
203255-81-6	792	3,3',5,5'-tetrakis(tert-butyl)-2,2'-dihydroxybiphenyl, cyclic ester with [3-(3-tert-butyl-4-hydroxy-5-methylphenyl)propyl]oxyphosphonous acid	5
068439-46-3	799	Polyethylenglycolether (EO = 1-50) von linearen und verzweigten primären Alkoholen (C8-C22)	1,8
-	813	Sulfobernsteinsäure, Alkyl (C4-C20) oder Cyclohexyldiester, Salze	5
-	819	Neodecansäure, Salze*	0,05

*This position is only included in certain printing ink components.

Substances according to Annex II, Table 1 of 10/2011/EC:
The requirements of 10/2011/EC for substances according to Annex II, Table 1 are met.

Information on primary aromatic amines:
The requirements of 10/2011/EC for primary aromatic amines are complied with.

The Declaration of Conformity is based on:

- Supplier confirmations
- Overall migration analyses according to 10/2011/EC on equal or comparable specifications
- Specific analyses on equal or comparable specifications

List of dual use additives that could be part of this specification:
E251, E321, E330, E338, E422, E470a, E470b, E471, E475, E514, E517, E551, E570

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