


# MKP Film Capacitor

# Material Data Sheet

<b>Product Class</b>	<b>B25680Bx</b>	
<b>Date</b>	<b>27/04/2022</b>	
<b>IMDS ID if available</b>	<b>NA</b>	
<b>Version</b>	<b>5.02.1a (03/2019)</b>	

Product Part (IMDS: semi component)	Material Class (IMDS: Material)	Material (Classification) VDA 231	Substance	TMPS** [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)
<b>Active Part</b>	Thermoplastic	2A	Polypropylene (PP)	100	9003-07-0	50.24	
	Heavy Metals	1C	Zinc (Zn)	100	7440-66-6	6.28	
	Thermoplastic	2A	Polybutylene terephthalate (PBT)	70	26062-94-2	2.44	
	Mineral Materials	3A	Fiber Glass	30	65997-17-3		
<b>Encapsulation</b>	Thermoplastic	2A	Polypropylene (PP)	100	9003-07-0	1.59	
	Duromer	2A	Dough molding compound (DMC)	100	23165-19-7	2.53	
	Duromer	2D	Polyurethane (PU)	100	9009-54-5	13.31	
	Light Metals	1B	Aluminum (Al)	100	7429-90-5	12.59	
	Paper, Cardboard	6D	Cellulose	100	9004-34-6	0.94	
	Iron and Steel	1A	Steel	100	65997-19-5	1.88	
	Elastomer	2B	Rubber	100	9005-98-5	0.12	
<b>Termination</b>	Heavy Metals	1C	Brass(alloy)	97	86376-49-0	3.85	
	Heavy Metals	1C15	Lead (Pb)	3	7439-92-1		
	Heavy Metals	1C	Copper (Cu)	100	86376-49-0	2.81	
	Heavy Metals	1C	Tin (Sn)	100	7440-31-5	1.11	
	Thermoplastic	2A	Polyolefin	100	308070-21-5	0.31	
<b>Sum in total:</b>						<b>100</b>	

Sizes D x Hc [mm]	weight range [kg]	Sizes D x Hc [mm]	weight range [kg]	Sizes D x Hc [mm]	weight range [kg]	Sizes D x Hc [mm]	weight range [kg]	Part numbers
Ø85x99	0.58	Ø85x229	1.40	Ø116x156	1.75	Ø116x345	3.90	B25680Bx
Ø85x124	0.71	Ø116x74	0.88	Ø116x179	1.95	Ø136x137	2.10	
Ø85x136	0.85	Ø116x99	1.13	Ø116x229	2.56	Ø136x280	4.20	
Ø85x156	1.00	Ø116x124	1.40	Ø116x253	2.85	Ø136x345	5.20	
Ø85x179	1.10	Ø116x136	1.55	Ø116x279	3.13	Ø136x365	5.50	

**Not Part of a Product Class**

<b>Contact</b>	Brian Zheng	<b>Important remarks:</b> 1) The declaration limit is 0.1% as defined by IEC 62474 (IEC PAS 61906). Traces are product parts, substances etc. that are below a percentage of 0.1% by weight, if not otherwise regulated. 2) This Material Data Sheet contains typical values of the respective products set forth herein. We expressly point out that all values and statements contained herein are based on our best present knowledge and cannot be regarded as binding statements or binding product specifications, unless otherwise explicitly agreed in writing. TDK Electronics AG AND ITS AFFILIATES HEREBY EXPRESSLY DISCLAIM ANY REPRESENTATION OR WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, WITH REGARD TO THE STATEMENTS AND VALUES CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PURPOSE.
<b>Division</b>	CAP PW PD	
<b>Address</b>	No. 4 Lianfeng Road, 519030 Zhuhai City, PR CHINA	
	Tel: +86-756-886-3585      brian.zheng@tdk.com	

\*) others: (not declarable or prohibited substances acc. GADSL)

\*\*) typical mass percentage of substance

**The products set forth herein are "RoHS-compatible".** RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8<sup>th</sup>, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

**RoHS - Exemptions for the Product Class / Product according to Annex III:** (  valid  not valid )

- no exemptions;
- Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight;
- Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;
- Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;
- Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);
- Exemption 7 (c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound;
- Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;
- Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;
- Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;
- Other Exemption than above .....