

TEST REPORT ac	cording to ISO	/IEC 17025					
No. AVS:	2006115						
Date:	2022-02-15		l ((DAkkS			
File:	2006115_V_E	N.DOCX	, ,	Deutsche			
				Akkreditierungsstelle D-PL-14121-04-00			
Testing labora	atory		Contact at lab	oratory			
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Materials and	Parts Testing		E-Mail:	daniel.francke@basf.com			
PMD/EX-H201	_		Position:	Team lead			
67056 Ludwig	shafen						
Deutschland				D. Francke			
			Signature: \(\frac{\psi}{2}\)	J. Kancke			
Client			Contact at client				
Company:	BASF 3D Print	ing Solutions GmbH	Name:	Matthias Fischer			
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	69115 Heidel	berg	E-Mail:	matthias.fischer@basf-3dps.com			
	Germany						
Test specimer			Test methods (Standard and publication date)				
A2020)-2248 PC-ABS (FR) black	- IEC 60695-11-10:2014 vertical (equivalent				
			to UL94:2020))			
	_		This report cor				
Order received		2021-01-04	Pages:	3			
Specimen rece		2021-01-04	Diagrams:	0			
Tests conduct	ed on:	2021-01-12	Tables:	2			
			Photos:	0			
			Attachments:	2			

Decision rule

EN45545-2:2016, R26 (EL 10): HL1-3 (V0)

Result

Test specimen of nominal thickness 1.5 and 3 mm were subjected to vertical flammability testing according to DIN EN 60695-11-10:2014 (equivalent to UL94:2018). The test result is V-0. This result provides evidence for conformity with EN45545-2:2016, R26 for HL1, HL2 and HL3.

Note

This report replaces a previous report dated 2021-11-15 due to editorial corrections.

The test results of this report are only valid for the specimens tested and only describe the results achieved by the application of the particular tests methods to these specimens. They do not imply any guarantee nor any agreement on a contractual quality or a suitability of the product for a specific purpose. In view of the many factors that may affect processing and application of the product, the test results do not relieve processor from carrying out own investigations and tests. The report does not imply any recommendation for a product. The report shall only be reproduced and passed on in full.

The testing laboratory is accredited by DAkkS Deutsche Akkreditierungsstelle GmbH (German Accreditation Body) according to ISO 17025 for mechanical, thermal, physical-chemical and flammability tests. The accreditation is valid only for the scope of accreditation listed in the Annex to the accreditation certificate (Registration No. D-PL-14121-04-00).



TEST REPORT

SAP: 40357410

BASF SE, PMD/EX - H202, D-67056 Ludwigshafen

Page 1 of 1

Waldemar Niedballa Phone: 0621-60-41868

Date of order: 2021-01-04

0 -E079/GK Order no.:

AVS no.: 2006115

Knopf Giulia / Pitz Andreas Customer:

PDF no.: 173

Product: A2020-2248_PC-ABS-FR_1,5MM BLACK

Preparation:

3D Printing

Conditioning: Comments:

*** Flame testing *** Flammability V acc. to UL 94: 2020

Information about test procedure and test specimens

M 0 0321		Measurements & observations								Classification			
Dimensions of test specimens		1st flame application, 10 s			2nd flame application, 10 s				Total				
127 * 12,7 * d mm³		After-	Cotton	Burning	Obser-	After-	Cotton	Burning	Obser-	Afterflame	Afterflame		
			flame	indicator	up to	vations	flame	indicator	up to	vations	& Afterglow	time	
			time	ignited?	holding		time	ignited?	holding		time	t1 + t2	
			t1 [s]		clamp?		t2 [s]		clamp?		t2 + t3 [s]	[s]	
Requirements			≤ 10	no	no		≤ 10	no	no		≤ 30	≤ 50	= V-0
			≤ 30	no	no		≤ 30	no	no		≤ 60	≤ 250	= V-1
			≤ 30	yes	no		≤ 30	yes	no		≤ 60	≤ 250	= V-2
Pre-conditioning	Spec	Thickn	Abbrev	.: A=drippir	ng parts, K=ed	dge-burni	ng, T=dr	ipping par	ts, R=rolls up				
	no.	[mm]											
Conditioning	1	1.53	1	No	No		2	No	No		2		
chamber	2	1.53	2	No	No		2	No	No		2		
(2d / 23°C / 50%)	3	1.51	1	No	No		2	No	No		2		
	4	1.51	1	No	No		3	No	No		3		
	5	1.50	1	No	No		1	No	No		1	16	V-0
			First tes	st			2021-01	1-12 13:46	:42 - 2021-01	-12 13:54	:02		
Drying oven	1	1.54	1	No	No		3	No	No		3		
(7d / 70°C)	2	1.55	1	No	No		2	No	No		2		
	3	1.51	1	No	No		5	No	No		5		
	4	1.59	1	No	No		5	No	No		5		
	5	1.55	1	No	No		2	No	No		2	22	V-0
			First test 2021-01-12 13:57:54 - 2021-01-12 14:06:26										
Conditioning	1												
chamber	2												
(2d / 23°C / 50%)	3												
	4												
	5												
			Repeat	Repeated test -									
Drying oven	1												
(7d / 70°C)	2												
	3												
	4												
	5												
			Repeat	ed test			_						V-0 @ 1.5 mm

D		W. Needballa
Date of report: 2021-01-12	Signature:	•



TEST REPORT

BASF SE, PMD/EX - H202, D-67056 Ludwigshafen

Page 1 of 1

llona Klee Phone: 0621-60-41868

Date of order: 08.12.2020

0 -E079/GK SAP: 40357410 Order no.:

AVS no.: 2006115

Customer: Knopf Giulia / Pitz Andreas

PDF no.: 450

Product: A2020-2248_PC-ABS-FR_3,0MM BLACK

Preparation:

3D Printing

Conditioning: Comments:

*** Flame testing *** Flammability V acc. to UL 94: 2020

Information about test procedure and test specimens

M 0 0324			Measurements & observations							Classification			
Dimensions of test specimens		1st flame application, 10 s			2nd flame application, 10 s					Total			
127 * 12,7 * d mm³		After-	Cotton	Burning	Obser-	After-	Cotton	Burning	Obser-	Afterflame	Afterflame		
			flame	indicator	up to	vations	flame	indicator	up to	vations	& Afterglow	time	
			time	ignited?	holding		time	ignited?	holding		time	t1 + t2	
			t1 [s]		clamp?		t2 [s]		clamp?		t2 + t3 [s]	[s]	
Requirements			≤ 10	no	no		≤ 10	no	no		≤ 30	≤ 50	= V-0
			≤ 30	no	no		≤ 30	no	no		≤ 60	≤ 250	= V-1
			≤ 30	yes	no		≤ 30	yes	no		≤ 60	≤ 250	= V-2
Pre-conditioning	Spec	Thickn	Abbrev.	: A=drippir	ig parts, K=ed	dge-burni	ng, T=dr	ipping parl	ts, R=rolls up				
	no.	[mm]											
Conditioning	1	3.10	1	No	No		9	No	No		9		
chamber	2	3.05	1	No	No		2	No	No		2		
(2d / 23°C / 50%)	3	3.12	1	No	No		10	No	No		10		
	4	3.10	1	No	No		4	No	No		4		
	5	3.12	1	No	No		8	No	No		8	38	V-0
			First tes	st			15.12.2	020 12:56	- 15.12.2020	13:03			
Drying oven	1	3.09	1	No	No		3	No	No		3		
(7d / 70°C)	2	3.10	1	No	No		4	No	No		4		
	3	3.12	1	No	No		5	No	No		5		
	4	3.14	1	No	No		3	No	No		3		
	5	3.08	1	No	No		6	No	No		6	26	V-0
		First tes	First test 16.12.2020 11:25 - 16.12.2020 11:33										
Conditioning	1												
chamber	2												
(2d / 23°C / 50%)	3											1	
	4												
	5												
			Repeat	Repeated test -									
Drying oven	1												
(7d / 70°C)	2												
	3												
	4												
	5												
			Repeat	Repeated test -							V-0 @ 3.0 mm		

		Ylona Kla	
Date of report: 2020-12-16	Signature:	30.11	
		·	