

## Relatório de Ensaios

No. BR1701987 Rev. 0

Pag.1 de 4

VIDEOLAR - INNOVA S.A.  
AVENIDA ABIURANA, 1616 -1616  
DISTRITO INDUSTRIAL  
MANAUS  
AM

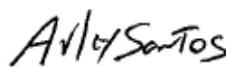
SGS Ordem No. : 4260-19877-1  
Número da Proposta : CRS L-09154.48203.17 REV.00  
Total de Amostras Recebidas : 01 AMOSTRA  
Condição de recebimento da amostra na SGS : ENVELOPE  
Número do Lote : 17-0591  
País de Origem : BRASIL  
País de Destino : BRASIL  
Data de Fabricação da Amostra : ABRIL/2017  
Data de Validade da Amostra : ABRIL/2018  
Fornecedor : VIDEOLAR-INNOVA  
Fabricante : VIDEOLAR-INNOVA  
Data de Recebimento da Amostra: 28 Abr 2017  
Período de análise : 02 Maio 2017 - 11 Maio 2017  
Teste Solicitado : Teste(s) selecionado(s) conforme solicitado pelo cliente.  
Método de ensaio : Consulte a(s) página(s) seguinte(s).  
Resultados dos Ensaios : Consulte a(s) página(s) seguinte(s).

Os resultados reportados referem-se somente às amostras submetidas aos ensaios.

Assina em nome da  
SGS do Brasil Ltda.



Simone da Costa Morgado dos Reis  
Gerente de Laboratório CRQ 04261979



Arley Santos Ferreira Leite  
Supervisor de Laboratório CRQ 04471856

This document is issued by the Company under its General Conditions of Service available on request and accessible at [http://www.br.sgs.com/pt\\_br/consumer\\_testing\\_br?lobId=1602](http://www.br.sgs.com/pt_br/consumer_testing_br?lobId=1602). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate any party to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 40 days only. This document cannot be reproduced in full, without prior written approval of the Company.

## Relatório de Ensaios

No. BR1701987 Rev. 0

Pag.2 de 4

Resultados dos Ensaios :

### Descrição das Amostras

Item No.	SGS ID Amostra	Descrição
1	BR1701987.001	HIPS 825E

### Determinação de Chumbo, Cádmio e Mercúrio em Polímeros, Metais e Eletrônicos por ICP-OES

Metodologia Referenciado nas IEC 62321-7, 8, 9 e 10:2008, análise realizada por ICP-OES.

Item(s) de Teste	Limite	Unid.	MQL	001
Cádmio (Cd)	Max. 100,00	mg/kg	12,50	ND
Chumbo (Pb)	Max. 1000,00	mg/kg	12,50	ND
Mercúrio (Hg)	Max. 1000,00	mg/kg	62,50	ND

### Determinação de Cromo Hexavalente em Polímeros e Eletrônicos por Método Colorimétrico

Metodologia Referenciado na IEC 62321:2008 e IEC 62321-7-1:2015, análise realizada por UV-VIS.

Item(s) de Teste	Limite	Unid.	MQL	001
Cromo Hexavalente	Max. 1000,00	mg/kg	10,00	ND

### Determinação de PBB e PBDE em Polímeros por GC-MS

Metodologia Referenciado na IEC 62321A:2008, análise realizada por GC-MS.

Item(s) de Teste	Limite	Unid.	MQL	001
Monobromobifenil	-	mg/kg	5,00	ND
Dibromobifenil	-	mg/kg	5,00	ND
Tribromobifenil	-	mg/kg	5,00	ND
Tetrabromobifenil	-	mg/kg	5,00	ND
Pentabromobifenil	-	mg/kg	5,00	ND
Hexabromobifenil	-	mg/kg	5,00	ND
Heptabromobifenil	-	mg/kg	5,00	ND
Octabromobifenil	-	mg/kg	5,00	ND
Nonabromobifenil	-	mg/kg	5,00	ND
Decabromobifenil	-	mg/kg	5,00	ND
Soma dos PBBs	Max. 1000,00	mg/kg	5,00	ND
Monobromodifenil Eter	-	mg/kg	5,00	ND
DiBromoDifenil Eter	-	mg/kg	5,00	ND
Tribromodifenil Eter	-	mg/kg	5,00	ND
Tetrabromodifenil Eter	-	mg/kg	5,00	ND
Pentabromodifenil Eter	-	mg/kg	5,00	ND
Hexabromodifenil Eter	-	mg/kg	5,00	ND
Hexabromodifenil Eter	-	mg/kg	5,00	ND
Heptabromodifenil Eter	-	mg/kg	5,00	ND

This document is issued by the Company under its General Conditions of Service available on request and accessible at [http://www.br.sgs.com/pt\\_br/consumer\\_testing\\_br?lobld=1602](http://www.br.sgs.com/pt_br/consumer_testing_br?lobld=1602). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not ex parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 40 days only. This document cannot be reproduced in full, without prior written approval of the Company.

## Relatório de Ensaios

No. BR1701987 Rev. 0

Pag.3 de 4

<u>Item(s) de Teste</u>	<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>001</u>
Heptabromodifenil Eter	-	mg/kg	5,00	ND
Octabromodifenil Eter	-	mg/kg	5,00	ND
Nonabromodifenil Eter	-	mg/kg	5,00	ND
Nonabromodifenil Eter	-	mg/kg	5,00	ND
Nonabromodifenil Eter	-	mg/kg	5,00	ND
Decabromodifenil Eter	-	mg/kg	5,00	ND
Soma dos PBDEs	Max. 1000,00	mg/kg	5,00	ND

Nota :

- (1) MQL = Limite de Quantificação do Método
- (2) ND = Não Detectado ( < MQL )
- (3) "-" = Não Analisado
- (4) "--" = Análises em Processo

### Opiniões e Interpretações :

Baseado nos testes executados na amostra, o resultado **atende** aos requisitos estabelecidos pela Directiva RoHS 2011/65/EU e suas emendas subsequentes, para os ensaios realizados.

**AVISO: As opiniões e interpretações expressas abaixo são aplicáveis somente para os ensaios em que os parâmetros de especificação estão inclusos nesse relatório e também não fazem parte do nosso escopo de acreditação.**

Resumo de Resultados :

<b>Teste Solicitado :</b>	<b>Método de Ensaio</b>	<b>Avaliação</b>
Determinação de Chumbo, Cádmiu e Mercúrio em Polímeros, Metais e Eletrônicos por ICP-OES	Referenciado nas IEC 62321-7, 8, 9 e 10:2008, análise realizada por ICP-OES.	Atende
Determinação de Cromo Hexavalente em Polímeros e Eletrônicos por Método Colorimétrico	Referenciado na IEC 62321:2008 e IEC 62321-7-1:2015, análise realizada por UV-VIS.	Atende
Determinação de PBB e PBDE em Polímeros por GC-MS	Referenciado na IEC 62321A:2008, análise realizada por GC-MS.	Atende

This document is issued by the Company under its General Conditions of Service available on request and accessible at [http://www.br.sgs.com/pt\\_br/consumer\\_testing\\_br?lobld=1602](http://www.br.sgs.com/pt_br/consumer_testing_br?lobld=1602). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not ex parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 40 days only. This document cannot be reproduced in full, without prior written approval of the Company.



Date: Barueri, 12 Maio 2017

## Relatório de Ensaios

No. BR1701987 Rev. 0

Pag.4 de 4

\*\*\* Final do Relatório \*\*\*

This document is issued by the Company under its General Conditions of Service available on request and accessible at [http://www.br.sgs.com/pt\\_br/consumer\\_testing\\_br?lobId=1602](http://www.br.sgs.com/pt_br/consumer_testing_br?lobId=1602). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 40 days only. This document cannot be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written approval of the Company.

**SGS do Brasil Ltda.**

Av. Andromeda, 832 - Alphaville Conde I - Barueri - SP - CEP: 06473-00 - Fone: +55 11 2664-9595 - Fone: +55 11 3883-8800 - Fax: +55 11 3883-8900 - Customer Services: <http://online.br.sgs.com/helpdesk/sac.aspx> - [www.br.sgs.com](http://www.br.sgs.com)

Member of SGS Group (SGS SA)