



Date: Barueri, 12 Maio 2017

## Relatório de Ensaios

No. BR1701989 Rev. 0

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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 : 17-0599  
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

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Resultados dos Ensaios :

### Descrição das Amostras

Item No.	SGS ID Amostra	Descrição
1	BR1701989.001	GPPS 500

### 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

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<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, Cádmi 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

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\*\*\* Final do Relatório \*\*\*

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