



Date: Barueri, 12 Maio 2017

Relatório de Ensaios

No. BR1701990 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 : 17-0573
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 | BR1701990.001 | GPPS 585 |

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 :

| Teste Solicitado : | Método de Ensaio | Avaliação |
|---|--|------------------|
| 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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