



Date: Barueri , 01 Dez 2017

Relatório de Ensaios

No. BR1704969-01 Rev. 0

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DISTRISUPRI DISTRIBUIDORA E COMÉRCIO LTDA.
RUA JORGE TIBIRIÇA, 2474
PARQUE INDUSTRIAL
SÃO JOSÉ DO RIO PRETO/SP
CEP:15025-060

SGS Ordem No. : 4260-26806-1
Número da Proposta : CRS L-32327.53604.17 REV.00
Total de Amostras Recebidas : 01 AMOSTRA
Condição de recebimento da amostra na SGS : CAIXA
Data de Recebimento da Amostra: 30 Out 2017
Período de análise : 30 Out 2017 - 07 Nov 2017
Teste Solicitado : Teste(s) selecionado(s) conforme solicitado pelo cliente.
Descrição das Amostras: Consulte a(s) página(s) seguinte(s).
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



Graziella Lelis Dias
Coordenadora de Laboratório CRQ IV 04261374

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Resultados dos Ensaios :

Descrição das Amostras

Item No.	SGS ID Amostra	Descrição
1	BR1704969.001	TONER PARA IMPRESSORA LASER-DSI (CARÇAÇA)
2	BR1704969.002	TONER PARA IMPRESSORA LASER-DSI (CILINDRO)
3	BR1704969.003	TONER PARA IMPRESSORA LASER-DSI (PÓ DO TONER)

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

Metodologia Referenciado nas IEC 62321-4 e 5:2013, análise realizada por ICP-OES.

Item(s) de Teste	Limite	Unid.	MQL	
Chumbo (Pb)	Max. 1000,00	mg/kg	12,50	001 29,42
Cádmio (Cd)	Max. 100,00	mg/kg	12,50	12,65
Mercúrio (Hg)	Max. 1000,00	mg/kg	62,50	ND
Item(s) de Teste	Limite	Unid.	MQL	002
Chumbo (Pb)	Max. 1000,00	mg/kg	12,50	ND
Cádmio (Cd)	Max. 100,00	mg/kg	12,50	ND
Mercúrio (Hg)	Max. 1000,00	mg/kg	62,50	ND
Item(s) de Teste	Limite	Unid.	MQL	003
Chumbo (Pb)	Max. 1000,00	mg/kg	12,50	ND
Cádmio (Cd)	Max. 100,00	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
Item(s) de Teste	Limite	Unid.	MQL	002
Cromo Hexavalente	Max. 1000,00	mg/kg	10,00	ND
Item(s) de Teste	Limite	Unid.	MQL	003
Cromo Hexavalente	Max. 1000,00	mg/kg	10,00	ND

Determinação de PBB e PBDE em Polímeros por GC-MS

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Determinação de PBB e PBDE em Polímeros por GC-MS

Metodologia Referenciado na IEC 62321-6:2015, análise realizada por GC-MS.

<u>Item(s) de Teste</u>	<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>001</u>
Monobromobifenil	-	mg/kg	35,00	ND
Dibromobifenil	-	mg/kg	35,00	ND
Tribromobifenil	-	mg/kg	35,00	ND
Tetrabromobifenil	-	mg/kg	35,00	ND
Pentabromobifenil	-	mg/kg	35,00	ND
Hexabromobifenil	-	mg/kg	35,00	ND
Heptabromobifenil	-	mg/kg	35,00	ND
Octabromobifenil	-	mg/kg	35,00	ND
Nonabromobifenil	-	mg/kg	35,00	ND
Decabromobifenil	-	mg/kg	35,00	ND
Soma dos PBBs	Max. 1000,00	mg/kg	-	ND
Monobromodifenil Eter	-	mg/kg	50,00	ND
DiBromoDifenil Eter	-	mg/kg	50,00	ND
Tribromodifenil Eter	-	mg/kg	50,00	ND
Tetrabromobifenil Eter	-	mg/kg	50,00	ND
Pentabromodifenil Eter	-	mg/kg	50,00	ND
Hexabromodifenil Eter	-	mg/kg	50,00	ND
Hexabromodifenil Eter	-	mg/kg	50,00	ND
Heptabromodifenil Eter	-	mg/kg	50,00	ND
Octabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Decabromodifenil Eter	-	mg/kg	125,00	293,89
Soma dos PBDEs	Max. 1000,00	mg/kg	-	293,89

<u>Item(s) de Teste</u>	<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>002</u>
Monobromobifenil	-	mg/kg	35,00	ND
Dibromobifenil	-	mg/kg	35,00	ND
Tribromobifenil	-	mg/kg	35,00	ND
Tetrabromobifenil	-	mg/kg	35,00	ND
Pentabromobifenil	-	mg/kg	35,00	ND
Hexabromobifenil	-	mg/kg	35,00	ND
Heptabromobifenil	-	mg/kg	35,00	ND
Octabromobifenil	-	mg/kg	35,00	ND
Nonabromobifenil	-	mg/kg	35,00	ND
Decabromobifenil	-	mg/kg	35,00	ND
Soma dos PBBs	Max. 1000,00	mg/kg	-	ND
Monobromodifenil Eter	-	mg/kg	50,00	ND
DiBromoDifenil Eter	-	mg/kg	50,00	ND
Tribromodifenil Eter	-	mg/kg	50,00	ND
Tetrabromobifenil Eter	-	mg/kg	50,00	ND
Pentabromodifenil Eter	-	mg/kg	50,00	ND
Hexabromodifenil Eter	-	mg/kg	50,00	ND
Hexabromodifenil Eter	-	mg/kg	50,00	ND

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<u>Item(s) de Teste</u>	<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>002</u>
Hexabromodifenil Eter	-	mg/kg	50,00	ND
Heptabromodifenil Eter	-	mg/kg	50,00	ND
Octabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Decabromodifenil Eter	-	mg/kg	125,00	ND
Soma dos PBDEs	Max. 1000,00	mg/kg	-	ND
<u>Item(s) de Teste</u>	<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>003</u>
Monobromobifenil	-	mg/kg	35,00	ND
Dibromobifenil	-	mg/kg	35,00	ND
Tribromobifenil	-	mg/kg	35,00	ND
Tetrabromobifenil	-	mg/kg	35,00	ND
Pentabromobifenil	-	mg/kg	35,00	ND
Hexabromobifenil	-	mg/kg	35,00	ND
Heptabromobifenil	-	mg/kg	35,00	ND
Octabromobifenil	-	mg/kg	35,00	ND
Nonabromobifenil	-	mg/kg	35,00	ND
Decabromobifenil	-	mg/kg	35,00	ND
Soma dos PBBs	Max. 1000,00	mg/kg	-	ND
Monobromodifenil Eter	-	mg/kg	50,00	ND
DiBromoDifenil Eter	-	mg/kg	50,00	ND
Tribromodifenil Eter	-	mg/kg	50,00	ND
Tetrabromobifenil Eter	-	mg/kg	50,00	ND
Pentabromodifenil Eter	-	mg/kg	50,00	ND
Hexabromodifenil Eter	-	mg/kg	50,00	ND
Hexabromodifenil Eter	-	mg/kg	50,00	ND
Heptabromodifenil Eter	-	mg/kg	50,00	ND
Octabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Nonabromodifenil Eter	-	mg/kg	125,00	ND
Decabromodifenil Eter	-	mg/kg	125,00	ND
Soma dos PBDEs	Max. 1000,00	mg/kg	-	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 2015/863/UE 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.

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Resumo de Resultados :

Teste Solicitado :	Método de Ensaio	Avaliação
Determinação de Chumbo, Cádmio, Cromo e Mercúrio em Polímeros, Metais e Eletrônicos por ICP-OES	Referenciado nas IEC 62321-4 e 5:2013, 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 62321-6:2015, análise realizada por GC-MS.	Atende

*** Final do Relatório ***

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