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2014/12/09 - 2014/12/16

POR 304/CM - TOYOTA TSM1501G-2A2

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Please find here below the test on our article POR.304/CM according to the norm TOYOTA TSM1501G-2A2.

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財團法人 塑膠工業技術發展中心
Plastics Industry Development Center

Verification Testing Laboratory
Analysis/Test Report

Application No : 103A011-K1 12796

Date Tested : 2014/12/09~2014/12/16

Item(s)/ Method(s) | Result(s) | Note

1.Compressive Load-Deflection Test TSM 1501G

	(kPa)
#1	34.0
#2	34.4
#3	35.1
MEAN	34.5

2.Air Heat Aging Test (Deflection Load Change Rate) TSM 1501G

	Deflection Load Change Rate(%)
#1	-6.47
#2	-8.72
#3	-3.11
MEAN	-6.11

3.Compression Set Test TSM 1501G

	Constant Deflection Compression Set (%)
#1	44.4
#2	45.0
#3	44.0
MEAN	44.5

4.Water Absorption Test TSM 1501G

	(%)
#1	2.86
#2	2.52
#3	0.922
MEAN	2.10

REMARK：

1.Compressive Load-Deflection Test
- 1.1 Specimen Preparation Method: Provided by Customer
- 1.2 Conditioning of Specimen :23 ±2 ℃, 50 ±5 % Relative Humidity, over 16 hrs
- 1.3 Conditioning of Experimental :23 ±2 ℃, 50 ±5 % Relative Humidity
- 1.4 Test Speed :20 mm/min
- 1.5 Specimen Mean Dimension – Diameter:29.64 mm
- 1.6 Specimen Mean Dimension - Thickness:6.15 mm
- 1.7 Compressive strain:25%

2.Air Heat Aging Test (Deflection Load Change Rate)
- 2.1 Specimen Preparation Method: Provided by Customer
- 2.2 Ageing Temperature:70 ± 1 ℃

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2.3 Ageing Time:168 hrs
2.4 Conditioning of Experimental :23 ±2 ℃, 50 ±5 % Relative Humidity
2.5 Experimental Condition - relative humidity :50 ± 5 %
2.6 Test Speed :20 mm/min
2.7 Specimen Mean Dimension – Diameter:29.01 mm
2.8 Specimen Mean Dimension – Thickness:5.77 mm
2.9 Compressive strain:25 %
2.10 Deflection load change rate:-6.09%

3.Compression Set Test
3.1 Specimen Preparation Method:Provided by Customer
3.2 Conditioning of Specimen :23 ±2 ℃, 50 ±5 % Relative Humidity, over 16 hrs
3.3 Compression- temperature :23 ± 2 ℃
3.4 Compression- time :22 hrs
3.5 Compression-cooling temperature:23 ± 2 ℃
3.6 Compression-cooling time:24hrs
3.7 Constant Deflection Compression Set :50 %
3.8 Conditioning of Experimental :23 ±2 ℃, 50 ±5 % Relative Humidity
3.9 Experimental Condition - relative humidity :50 ± 5 %
3.10 Specimen Mean Dimension - Thickness :12.49 mm

4.Water Absorption Test
4.1 Specimen Preparation Method:Provided by Customer
4.2 Conditioning of Specimen :23 ±2 ℃, 50 ±5 % Relative Humidity, over 16 hrs
4.3 Immerse time:3 mins
4.4 Test temperature:23 ±2 ℃
4.5 Vacuum pressure:17.0 kPa
4.6 Specimen Mean Dimension – Diameter:29.5 mm
4.7 Specimen Mean Dimension – Thickness:12.52 mm

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