



Ecully, 13/02/2017

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IFTH reference : DL161212-006

TEST REPORT N° 16-04699 E1 - V1

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PURPOSE OF THE REQUEST

Customer reference : Mail client 9 Décembre 2016

Date of request : 09/12/2016

Purchase order : APPEL D'OFFRE HUMANITAIRE - DEVIS SIGNE

Samples supplied on : 04/01/2017

Subject : Tests on Jerrycan 10 L and Jerrycan 20 L

N° CE/CL :

N° CQ :

SAMPLE(S) REFERENCE(S)

16-04699-001 : JERRY CAN 10 L

16-04699-002 : JERRY CAN 20 L

RESULTS SUMMARY
16-04699-001
JERRY CAN 10 L
Differential scanning calorimetric (DSC)
MTD_166
Date of the test : 13/01/2017
The results are analyzed on the curved corresponding to the second rise in temperature : oui
Temperature rate : 10 °C/min,
Initial temperature : 25 °C
Final temperature : 170 °C
Cycles number : 1

Measurements	Results
Melt point	115,7 °C
Melt point	115,7 °C
Enthalpy	81,6 J/g
Enthalpy	76,1 J/g
Cristaliinity	27,8 %
Cristaliinity	26,0 %

Comments :

The melting point indicates that the sample is made of Low Density Polyethylen (LDPE)

Visual and general characteristics inspection of jerry cans
MTD_217 (2016)

Measurements	Results
Capacity	10,3 l
Height of the jerry can	23,8 cm
Width of the jerry can	25,0 cm
Depth of the jerry can	23,9 cm
Weight of the jerry can	190,0 g
Height of the handle	2,5 cm
Length of the handle	8,0 cm
Diameter of the cap	40,4 mm
Length of the string	228 mm
Diameter of the string	2,49 mm

Comments :

jerrycan inlet interior diameter

A built-in carrying handle, with no sharp edges

The handle resist the traction test when filled with 10 l of water for 10 min

The sting break at 4,02kg

**Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration into aqueous food simulants by total immersion
NF EN 1186-3 Méthode A (Janvier 2003)**

Measurements	Results
Report number	CL17-00157

**Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part1: Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food simulants
NF EN 13130-1 (Août 2004) + Règlement 10/2011 CE**

Measurements	Results
Report number	CL17-00157

**Resistance of the product to impact of the jerry cans
MTD_218 (2016)**

Measurements	Results
Appearance after 10 impacts	The jerrycan resist to 10 consecutive drops from 2 m high, containing 10 l of water.
Inspection with 1/4 of its maximum volume	The jerrycan stand by itself, even when filled with less than 1/4 of its maximum volume

Comments :

No leakage should be found after filled with 10 liters of water for 10 min in upside down orientation

RESULTS SUMMARY

16-04699-002	JERRY CAN 20 L
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**Differential scanning calorimetric (DSC)
MTD_166**

Date of the test : 30/01/2017

The results are analyzed on the curved corresponding to the second rise in temperature : oui

Temperature rate : 10 °C/min,

Initial temperature : 25 °C

Final temperature : 170 °C

Cycles number : 1

Measurements	Results
Melt point	111,2 °C
Melt point	112,3 °C
Enthalpy	58,1 J/g

Enthalpy	57,2 J/g
Cristaliinity	19,8 %
Cristaliinity	19,5 %

Comments :

The melting point indicates that it is a low density polyethylene (LDPE)

**Materials and articles in contact with foodstuffs - Plastics substances subject to limitation - Part1: Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food simulants
NF EN 13130-1 (Août 2004) + Règlement 10/2011 CE**

Measurements	Results
Report number	CL17-00158

**Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration into aqueous food simulants by total immersion
NF EN 1186-3 Méthode A (Janvier 2003)**

Measurements	Results
Report number	CL17-00158

**Visual and general characteristics inspection of jerry cans
MTD_217 (2016)**

Measurements	Results
Capacity	21,1 l
Height of the jerry can	30,5 cm
Width of the jerry can	30,4 cm
Depth of the jerry can	30,5 cm
Weight of the jerry can	281,0 g
Height of the handle	2,5 cm
Length of the handle	8,1 cm
Diameter of the cap	40,5 mm
Length of the string	220 mm
Diameter of the string	2,47 mm

Comments :

jerrycan inlet interior diameter

A built-in carrying handle, with no sharpedges

The handle resist the traction test when filled with 10 l of water for 10 min

The sting break at 5,1kg

Resistance of the product to impact of the jerry cans
MTD_218 (2016)

Measurements	Results
Appearance after 10 impacts	The jerrycan resist to 10 consecutive drops from 2 m high, containing 20 l of water.
Inspection with 1/4 of its maximum volume	The jerrycan stand by itself, even when filled with less than 1/4 of its maximum volume

Comments :

No leakage should be found after filled with 20 liters of water for 10 min in upside down orientation

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Number of pages : 5 Appendices : 5

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If test reports, interpretation reports, comments, advice or observations are translated into a foreign language, only the version in French is valid.

« The uncertainty associated to the result was not explicitly taken in consideration to declare the conformity to the specification. Conformities are given only for the results associated to a specification. *Results of this test report are only valid for specimens subjected to testing at IFTH.* »

Report was simplified, all the technical data of the test can be communicated on request

* End of report *