

Item Code:	D8377247	Version:	1.0
Item Description:	TRIG,MLP,4X225MM,SCR,SP,BOOST	Status:	Published
Project Name:	Booster - S	Project Number:	
Component Group:	Triggers	Predecessor Code:	
Component Class:	TRIGGER	Component Material:	Composite - Plastic Only
Supply Region(s):	Eastern Europe	Manufacturing Site(s):	Nowy Dwor Poland Copackers
Document Sub-Type:	Standard Specification		

Group Packaging Specification: D0000023

Description

Booster -S trigger sprayer for Musketeer PET & HDPE screw on bottles

Dimensions

Dimensions

	Value	Tolerances	U.O.M	Acceptance Criteria
Drawing Reference:	15029/1			
Shroud - Major axis at base:		±	mm	Not Applicable
Shroud - Minor axis at base:		±	mm	Not Applicable
Shroud - Maximum major axis:	93.60	±1	mm	Minor
Shroud - Maximum minor axis:	39.0	±1	mm	Minor
Shroud - Overall height:	59.3	±2	mm	Major
Trigger - seal diameter at flange:				Not Applicable
Trigger - Internal chassis height (base to seal):		±	mm	Not Applicable
Trigger - Internal chassis diameter (at base):		±	mm	Not Applicable
Trigger - Internal chassis diameter (at location lugs):		±	mm	Not Applicable
Dip Tube length (FBOC):	240	±2	mm	Major
Dip Tube curvature (maximum):		max	mm	Major
Output per stroke:	2.0	±0.3	ml	Major
Total Weight (shroud included):	25.4	±10%	g	Minor

Extra Dimensions				
	Value	Tolerance	U.O.M.	Acceptance Criteria
Screw Collar Finish	28-410	nominal	na	Critical
Collar inside height	13.1	±0.5	mm	Major
from base to the top	-	-	-	-

Dip Tube Inner Diameter	4.15	±0.05	mm	Major
Thread Crest to Crest Diameter	25.4	±0.2	mm	Critical
Gasket thickness	1.0	±0.2	mm	Critical
Gasket internal diameter	19.1	±0.2	mm	Major
Gasket external diameter	25.1	±0.2	mm	Major

Supplier CoA must include test results for all 'Critical' and 'Major' parameters

All deliveries must come with CoC „Certificate of Conformity” and CoA should be available on request.
All critical & major parameters must be checked in line with frequency listed in “Performance Section” or if not specified, for each production lot.







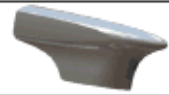




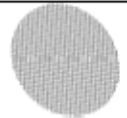


Material

Material			
Component	Drawing Ref.	Material	Approved Grades
SHROUD	approx. weight 7.1g	PP	ZP material code 713
TRIGGER LEVER /	approx. weight 2.4g	PP	ZP material code 283
ACTUATOR	approx. weight 1.2g	PP	ZP material code 283
SPRING	approx. weight 1.9g	PE - LD	ZP material code 614
PISTON	approx. weight 1.5g	PP	ZP material code 265
NOZZLE WIDE	approx. weight 4.3g	PP	ZP material code 712
BODY UPPER PART	approx. weight 3.3g	PP	ZP material code 283
BODY BASE PART	approx. weight 3.0g	PP	ZP material code 236
SCREW-ON CLOSURE	approx. weight 0.5g	PE - LD	ZP material code 032
VALVE	approx. weight 0.1g	PE - FOAM	
GASKET	approx. weight 0.003g	PET fabric	
MESH	approx weight 1.4g	PP	
DIP TUBE			

Each component part should be entered into the **Component** field each on a separate line.

- Only qualified materials should be used in every production run. Any change in terms of material composition and/or significant process conditions should be aligned with RB technical representative.
- Supplier has report on Heavy Metals (Pb, Cd, Hg, Cr (VI)) concentration in packaging
- Supplier has declaration of Masterbatch producers regarding Heavy Metals (Pb, Cd, Hg, Cr (VI)) concentration in the masterbatch
- Supplier has report on Heavy Metals (Pb, Cd, Hg, Cr (VI)) concentration in masterbatches
- There are no any other dangerous substances with N-symbol assigned present in packaging
- Suggested method of recovery: Material recycling EN 13430: latest version

Overview **BOOSTER_S**

	picture	component	drawing-no.	art.-no.	material type	weight [g]	ZP material code
1		Body Base Part	15048	0210	polypropylene	3,33	283
2		Piston 2,0ml	13839	0201	polyethylene	1,91	614
3		Valve	15163	0217	polyethylene	0,49	032
4		Body Upper Part	15049	0211	polypropylene	4,26	712
5		Actuator	14003	0204	polypropylene	2,37	283
6		Spring	15047	0212	polypropylene	1,23	283
7		Shroud	15050	0213	polypropylene	7,07	713
8		Nozzle	15051	0214	polypropylene	1,46	265
9		Visor	15052	0215	polypropylene	0,16	345
10		Screw-On-Closure 28/410	15053	0216	polypropylene	3,03	236
11		Gasket	15121		foam	0,1	
12		Mesh	15122		PET fabric	0,003	
13		Diptube	15123		polypropylene		
14		Assembly				25,413	

Directive on Packaging and Packaging Waste (94/62/EC), (CONEG) -

- Heavy Metals if present in packaging or packaging components, must contain less than 100 ppm cumulative of Mercury + Lead + Cadmium + Hexavalent Chromium

Refer to GPS 'STATUTORY' Section for other compliance requirements

Performance

Performance					
Test	Values	UOM	Frequency	Test Method	Test Method Code
Spray Pattern Diameter (with water) measured from distance of 20 cm	150 - 200	mm	supplier responsibility; during development, for each material change, or tool change, in case of issue	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Dosage (with water)	2.0 +/-0.2	ml	supplier responsibility; during development, for each material change, or tool change, in case of issue	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Dribbling	max 0.15	ml	during development, in case of issue	DATP test 1	*
Dip Tube Bending	70	mm	each production batch	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Durability	min 5000	strokes avg of 30	development, for each material change, or tool change	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Priming (each individual trigger; with water)	max 7	strokes	each production batch	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Priming (average for samples population; with water)	5	strokes	each production batch	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Dip tube retention force (fresh trigger)	min 10	N	each production batch	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Force to Actuate	max 30	N	during development; in case of issue	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Compatability - in use	0 defects observed	*	RB responsibility; during development, for each material change, or tool change, in case of issue	PKG-COMPATIBILITY-PRIMARY PACKAGING-NON AEROSOL, Guala TM 10	D0254015
Readability of "ON / OFF" selector	ON/OFF position must be clearly	*	during development	PA	*

	recognizable by consumers				
Rotation torque force	Min 15, Max 35	N*cm	each production batch	PKG-TORQUE FORCE MEASUREMENT-CLOSURES WITH THREAD	D0002674
Application Torque	1.5	N*cm	Reference Value	PKG-TORQUE FORCE MEASUREMENT-CLOSURES WITH THREAD	D0002674
Removal Torque	60% of application torque - 0.9	N*cm	Reference Value	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Atomization (amount of particles smaller than 10um) to be verified in external lab	2	%	during development	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Product Residue (bottle evacuation test)	max 5	% of nominal fill	RB responsibility, during development	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Leaking (basic test with water in horizontal position per 24h)	0 defects observed	attribute	supplier responsibility, every batch	PKG-LEAK TEST-SHORT TERM-PRIMARY PACK	D0002260
ESCR	0 defects observed	*	RB responsibility, once during development or material / construction / mould change	PKG-ESCR-SHORT AND LONG TERM TEST METHOD-PLASTICS	D0002258
Drop Test from 0.8m (cracked or disconnected shrouds are acceptable as long as trigger is functional)	0 defects observed;	attribute	during development or material / construction change / incase of issue	PKG-DROP TEST-PLASTIC CONTAINERS	D0002262
Dip tube retention force (Aged trigger-after compatibility in use test)	Min 3	N	RB responsibility, during development	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074
Appearance @ 0.5 metres length (amount of defective samples in line with AQL)	0 defects observed	*	each production batch	visual check for any noticable deviation of trigger color or overall shape vs approved sample; check if there are no marks, scratches, inclusions or anything which is not intended to be there	*
Nozzle spray / foam feature	0 defects observed during transportation or usage	*	each production batch	PKG-TRIGGER OR PUMP-TESTS AND VALIDATION	D0038074

General Notes:

*Rotation torque force - ON/OFF selector has 2 modes(Spray and off) with haptic click between modes.

In case if sampling plan is not defined by Test Method indicated in table above, please refer to ISO 3951 for variables and ISO 2859 for attributes. Special Inspection level S3 @ AQL 0.15% for critical parameters, AQL 1% for major parameters, AQL 4% for minor parameters.

Critical parameters: Drop Test, Leak tests, ESCR, Compatibility test, Priming, Atomization / amount of particles less than 10 microns, Major parameters: Dip tube removal force, Actuation force, Long term dispensing performance, Durability, Nozzle spray / foam feature

Minor parameters: Nozzle twist torque, Appearance, Atomization / rest parameters (apart from amount of particles less than 10 microns), bottle evacuation test

1. The packaging materials to be capable of running on appropriate Reckitt Benckiser packing lines-taking into account the process requirements defined below:

- sorting - manual and automatic
- capping- manual and automatic
- packing to outercase - manual and automatic

2. Acceptance criteria: According to „Acceptable Quality Levels A Guideline and Defect Classifications for Packaging Components”

Delivery Conditions

Delivery Conditions

The trigger sprayers are adequately packed and sent to the Customer.

In the definite quantity, the sprayers are placed in cardboard boxes.

Box weight and dimensions can change according to the product configuration and to environmental conditions (for example for humidity percentage variations), which are due to the transport and found by the Customer, on acceptance of incoming goods, should be pointed out by the Customer to the transporter.

The type of damages has to be reported on the transport document (CMR).

The type of packing is suitable for internal handling and storage of the finished product.

The pallets are suitable for correct handling.

Each pallet shall be stretch-wrapped with plastic film.

Packing specification

- Box size: **590 x 390 x 390mm**
- No of units per box: **351**
- Weight / box **10,4kg**
- Pallet size: **1200 x 800 x 2100mm**
- No of box per pallet: **20**
- No of units per pallet: **7020**

Storage/Transport conditions

- Temperature; 10C minimum
- Humidity; must be lower than 70-80% max RH for long periods

Each box & pallet is identified with a proper label that indicates:

Supplier name
Batch number
Production date
Order number
Quantity per box
Box no.
Code Description
Customer Code

Storage specification

Shelf life - 12 months

The temperature of the area where the pallets are stored at the Customer's shall not be lower than 5° C and not higher than 35° C, the relative humidity shall be kept between 30 - 70 %

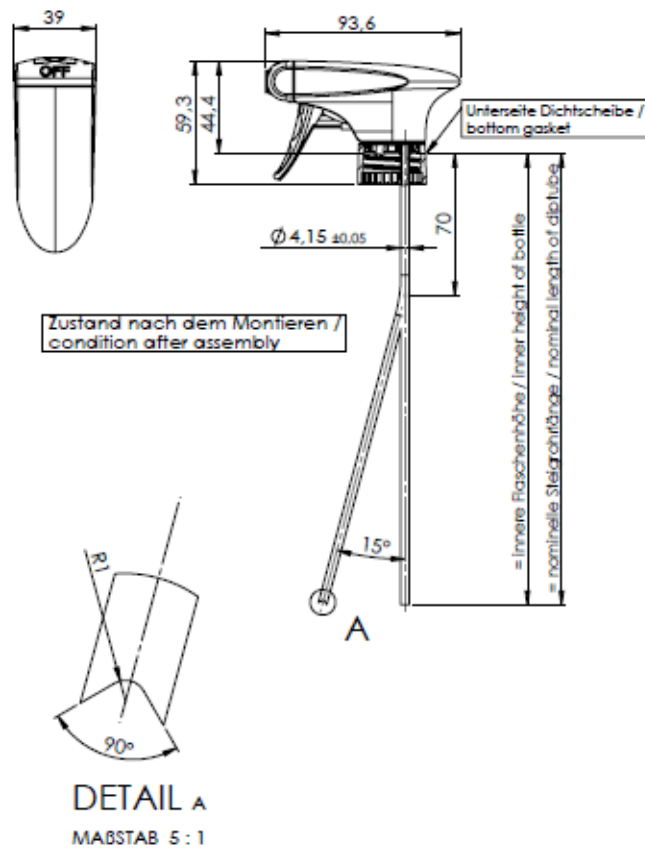
Note : make sure that the fitting process is carried out at room temperature and in any case not under 17°.

The pallets should be kept in the production area at least 12 hours to settle to room temperature before being used..

Environmental Data

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Datum	Änderung	Beschreibung			
2020	Datum	Name	Art.-Nr.		
gezeichnet	06.06.	Wilhelm	****		
geprüft					
Material:	Assembly Booster-S			Berry Brominge	
1:2	sketch			Zeller Plastik Deutschland GmbH - 50558 Zülz / Mosel	
(5:1)				Zeichn.-Nr.: 15312/0	
	Material:			Blatt: Blatt: 1/1	

Freimaßtoleranzen nach
DIN 16742 TG7
untoleranced dimensions acc. to
DIN 16742 TG7

File:IA322de19cad_daten\EW CAD\SWI00622 BOOSTER-S\00 Assembly\15029_Korset 00000 Booster-S_Assembly\aktuell



- 15029_01_Art_00000_Assembly_BOOSTER-S.PDF



- 15312_00_Art_00000_Assembly_BOOSTER-S_Skizze.pdf



- Zusammenstellung_Booster-S_Einzelteile_.pdf

REACH Data

REACH Data

Article This item is classified as an Article for EU REACH

Classification:

SVHC/SIR Content:

Additional Information

Additional Information

Supplier - Zeller Plastik Germany



Booster-S_Wasser.pdf



Reach - Booster S.pdf

The specification has been prepared relying on Declaration of Conformity issued by suppliers.

The concentration level of: Pb, Cd, Hg, Cr (VI): – below 100 ppm /CR 13695-1:2002, CR 13695-2:2002/	
YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>
Report on heavy metals (Pb Cd, Hg, Cr VI) concentration in the packaging (closure, bottle, etc.)*	
YES	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>
Declaration of masterbatch producer on fulfilling the requirements regarding the concentration of heavy metals: Pb, Cd, Hg, Cr (VI)*	
YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>
Report on heavy metals (Pb Cd, Hg, Cr VI) concentration in the masterbatch	
YES	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>
Presence of other dangerous substances with the GHS 09 symbol assigned	
YES	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>
Reusability /EN 13429:2005/	
YES	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>
Suggested method of recovery	
Material recycling /EN 13430:2002/	<input checked="" type="checkbox"/>
Burning with energy recovery /EN 13431:2002/	<input type="checkbox"/> Minimal inferior calorific energy / calorific gain in MJ/kg/
Composting /EN 13432:2002/	<input type="checkbox"/>
Biodegradability /EN 13432:2002	<input type="checkbox"/>

Zeller must approve & sign this specification prior to first production.

At the same time, this should mean approval of D0000023 which is a part of each Trigger specification and AQL References from RB Global Product Quality Manual V3.0 / 28 June 2010.

Zeller Plastik Deutschland GmbH, Barlastraße 23, 56856 Zell/Mosel

Berry Bramlage
RPC Bramlage Division GmbH & Co. KG, Brägeler
Str. 70, 49393 Lohne

Zell/Mosel, 2020-06-09

REACH-Erklärung (Verordnung EG 1907/2006) /
REACH Statement (Regulation EG 1907/2006)

Sehr geehrter Kunde / Dear customer,

in Bezug auf Ihre Anfrage können wir Ihnen nach unserem Kenntnisstand die folgenden aktuellen Informationen zu REACH geben: /

With regards to your question we can give you according to our state of knowledge the following current information about REACH:

Wie von der REACH-Richtlinie beschrieben, nehmen wir den Status eines nachgeschalteten Anwenders innerhalb der Lieferkette ein. Deshalb können unsere produzierten Artikel nicht (vor-)registriert werden. /

As described by the REACH guideline we take the state of a downstream user within the supply chain. Therefore, the articles we manufacture cannot be (pre-)registered.

Wir sind in aktivem Kontakt mit unseren Lieferanten, die uns mitteilen müssen, dass Sie alle eingesetzten Rohstoffe, Farben und Additive (vor-)registriert haben. Alle Lieferanten haben das Ziel die Rohstoffe auch weiterhin zu liefern. /

We are in active contact with our suppliers, which have to inform us that all used raw materials, colors, and additives will be (pre-)registered. All suppliers are aiming to supply the raw materials further on.

Aufgrund der Informationen unserer Lieferanten können wir Ihnen mitteilen, dass diese nicht mehr als 0,1% von SVHC's absichtlich in Ihren Rezepturen verwenden. Von uns werden ebenfalls keine SVHC's absichtlich unseren Artikeln zugeführt. Bitte beachten Sie, dass wir unsere Artikel nicht auf die Abwesenheit von SVHC's testen. /

Based on the information from our suppliers, we can give you the information that they purposely do not use more than 0.1% of SVHC's in their recipes. In the same way, we do not

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S.W.I.F.T. - Code DRES DE 3305
Steuer-Nr.: 40/659/0022/4 Finanzamt Simmern-Zell
VAT Nr. DE 149276603
Registergericht Koblenz HRB 1632

Geschäftsführer: Roger Hamers, Heinz Walter, Joachim Ober, Alfons Böckmann,
Franciscus L. P. Doerenbosch, Mark William Miles, Jason Kent Greene

purposely add SVHC's to our products. Please note, that we do not test our products to the absence of SVHC's.

Sollte sich herausstellen, dass einer der Rohstoffe, Farben oder Zusatzstoffe als besonders besorgnis-erregend eingestuft wird, werden wir Sie umgehend informieren. /

If it turns out that one of the raw materials, colors or additives is consider of particular concern, we will inform you immediately.

Wir hoffen, dass diese Informationen hilfreich für Sie sind und bitten Sie im Falle von Fragen nicht zu zögern uns zu kontaktieren. /

We hope that this information is of help to you. In case of any questions, please do not hesitate to contact us.

Dieses Dokument berücksichtigt die aktualisierte Kandidatenliste vom: /
This document includes the updated candidate list from:

16.01.2020

Mit freundlichen Grüßen / With best regards,

Zeller Plastik Deutschland GmbH



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Registriergericht Koblenz HRB 1632



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Source Details

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History

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