

# OpUs Verte



## GENERAL TECHNICAL INFORMATION

<b>Introduction</b>	OpUs Verte is the OpUs sprayer which is made for 47% of post consumer recycled resin (PCR)
<b>Trigger sprayer construction</b>	Polyolefines : Recycled PP (PCR), PP, PE
<b>Spray capabilities</b>	Various Spray, various Foam or Spray and Foam (depending on nozzle type)
<b>Pre-Compression technology</b>	Once primed, no need for re-priming. Normally closed valves. Controlled system pressure and spray performance.
<b>Closure</b>	Screw Cap: 28-400, 28-410, 28-410 Ratchet, 28-410 Lock Cap, 28-DIN Cap, Snap On CR / Snap On Non-CR

## PRODUCT SPECIFICATIONS

	REMARK	SPECIFICATION <sup>1</sup>	
Output	Measure output/stroke, use water. <i>Supplier Method APAC-WI-FLS2-QA-19</i>	1.2 ± 0.2 cc or 1.35 ± 0.2cc	
Strokes to prime	Strokes to prime, use water. <i>Supplier Method TPA301</i>	Maximum 9	
Dip tube		Straight tube with V-shape or Straight cut, Curved tube with V-shape cut. Stiff PP or flexible LDPE Length Min.140 mm, Length Max. 310 mm. Tolerance +/- 2 mm	
Weight	Average weight of standard OpUs based on dip tube length 250 mm	24.4 - 26.3 +/- 1.5 gram depending on the configuration	
Spray Pattern (Depending on type of nozzle)	Spray SO <sub>na</sub>	Angle 40° +/- 15°	CR-optional <sup>3</sup>
	Spray SO <sub>wa</sub>	Angle 65° +/- 15°	CR-optional <sup>3</sup>
	Spray and Stream SOS	Spray angle 40° +/- 15° Spray/Off/Stream	CR-optional <sup>3</sup>
	Foam FO <sub>nv</sub>	Beam / wet foam	CR-optional <sup>3</sup>
	Foam FO <sub>vi</sub>	Beam / medium dense foam	CR-optional <sup>3</sup>
	Foam FO <sub>vm</sub>	Beam / high dense foam	No CR option
	Foam FO <sub>v na</sub>	Beam / wet coarse foam	CR-optional <sup>3</sup>
	Foam FO <sub>v wa</sub>	Beam / wet coarse foam / more airy	CR-optional <sup>3</sup>
	Spray and foam SOF	Spray(na) and high dense foam (door with screen)	No CR option
	Flat Spray (4 inch) <sup>2</sup>	Flat triangle film shape, Angle 30° +/- 10°	No CR option
Flat Spray (10 inch) <sup>2</sup>	Flat triangle film shape, Angle 65° +/- 10°	No CR option	
Flat Foam	Flat linear/v-shape shape 120°, dense foam	No CR option	

<sup>1</sup> Depends on liquid used

<sup>2</sup> Availability restricted, please contact your account manager

<sup>3</sup> The material change to PCR requires the CR verification

## ADDITIONAL AVAILABLE OPTIONS

<b>Colors</b>	Creame White, Opaque, Custom Order Colors. Please contact your account manager for the color options
<b>Child resistant</b>	CR Verification is planned
<b>e-Commerce</b>	OpUs Verte is available in versions ISTA-6A OB (Over Boxing) certified for bottles up to 1L/32 Oz
<b>Remark</b>	The customer is responsible to confirm chemical & functional compatibility, as well as child resistance (CR), or Amazon ISTA 6A-OB of the entire package (i.e. bottle, sprayer & closure)
<b>Top label</b>	A customer designed top label can be added on the upper shroud
<b>Upside-Down (USD)</b>	Add-on to make it possible to use the sprayerbottle upside-down (Please note: The add-on contains a metal component)
<b>Trigger</b>	Long trigger ("Three-Finger") Note: Cannot be used with CR nozzles
<b>Trigger lock</b>	Add-on to fixate the trigger during transportation / e-commerce. Available in colors translucent, red and blue.
<b>Passive venting</b>	Membrane relief pressure in the bottle caused by temperature variation
<b>Upper shroud</b>	The OpUs is available in 2 upper shroud versions: Standard and the Edge A customized design for the upper shroud is possible. Please contact your account manager
<b>Refill Cap</b>	A refill cap as closure for a refill bottle with Snap On neck

## TESTING CONDITIONS

<b>Test medium</b>	Chlorinated water (0,10%)
<b>Actuation rate</b>	60 ± 20 actuations per minute
<b>Life time</b>	5,000 actuations (in laboratory conditions, 60 stroke/min; after 100 full strokes, 5 minutes pause)
<b>Temperature</b>	10-30°C / 50-86°F

## LOGISTICS

<b>Minimum Order Quantity</b>	The base minimum order quantity is 100,000 pcs per configuration. Please contact your key account manager for options
<b>Packaging</b>	Corrugated box, standard size 60x40x33 cm (L*W*H), 260-310 pcs per box depending on the configuration
<b>Storage condition required</b>	Dry, Temperature (10°C/ 50°F - 25°C/ 77°F), Max 2 pallets of 3 box layers Before capping, triggers need have temperature ≥ 18°C/64°F

## OTHER

<b>Technical support</b>	For any specific question or technical support needed, kindly contact your key account manager
<b>Warranty</b>	The typical warranty period is one year



# OpUs Verte

All versions available as Opus Standard, with exception of the UpSide Down version, can be delivered as Verte

## Examples of colors

