



Global Product Portfolio

Dispensing Closures

Always the perfect fit

Whether you're in the market for a standard or a custom dispensing closure, we are here to help. With the acquisition of Polytop Corporation, leaders in the design and manufacture of custom dispensing closures, WestRock is able to broaden our range of options and expand our offerings of customized solutions to the global market.

WestRock provides innovative packaging products and solutions to the world's most admired brands. We collaborate with customers to offer unmatched levels of customization, sustainability, innovative design and manufacture, and delivery across the globe.

We are committed to understanding brands to meet their delivery system needs and ensure products are dispensed correctly. And our customized dispensing closure capabilities, like in-house color matching, ensure speed to market.

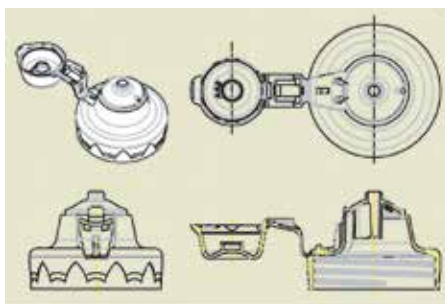
For us, the Polytop acquisition means providing our customers with a more comprehensive range of dispensing options and expertise. For your brands, it means a unique way to provide differentiation on the shelf and at home, and new ways to serve up freshness, safety and convenience.

Custom Dispensing Closures

WestRock will assist you in bringing your ideas from concept to completion.

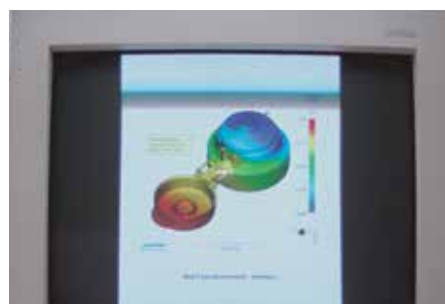
Design phase

- Industrial design
- 3D concept renderings
- SLA presentation models



Engineering phase

- Mold filling analysis
- Finite element analysis
- Prototype molded samples



Production phase

- High-volume turnkey systems
- Robotic automation
- 100% vision inspection



Standard Dispensing Closures

Polycam

Snap-Action and One-Piece Closures

- Innovative designs for bottles, tubes and tottles
- Attractive smooth wall and serrated style
- Custom and stock
- Logo insert capability
- Lining capability
- Ergonomic thumb lifts
- Easy open/easy close
- Non-protruding hinges
- Clog-resistant orifices
- Friction fit and threaded
- Orifice sizes 1.5mm (0.060") to 28.5mm (1.122")



Spouts

Spouted and Applicator

- Pinpoint directional dispensing
- Dual color capability
- Orifice sizes from dropper to large rectangle
- Lining capability
- Child-resistant options available
- Friction fit and threaded
- Custom and stock
- Popular sizes for bottles, tubes and cans
- Ideal for chemical, automotive, household products and more



FlexFit™

One-Piece, Flip-Top Pouch Fitment

- Convenient, single-piece closure
- Quick and easy-to-use flip top
- Latch back feature allows for mess-free dispensing
- Less material than similar closures on the market
- Orifice sizes: 8.6mm round, 6mm round and 4x8.6mm ribbon
- Suitable for food and non-food applications

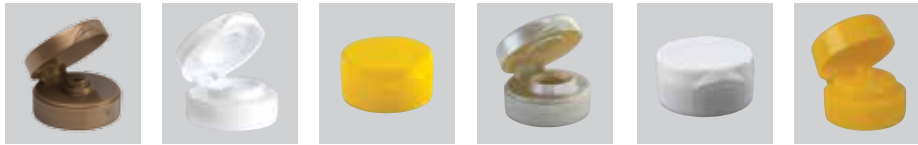


Polycam Smooth Walled



Part #	PS363	PS396	PS356	PS376	PS357	PS370	PS371	PS433
Size/Finish	22/415	22/415 Frosted	24/410	24/410	24/415	28/410	28/415	28/410
Seal Type	Arc	Arc	Arc	Liner	Arc	Arc	Arc	Arc
Lining	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Emboss	No	No	No	No	No	Yes	Yes	Yes
Orifice Sizes	6mm, 1.5mm	6mm, 1.5mm	6mm, 4.75mm, 3mm, 1.5mm	6mm, 4.75mm, 3mm, 1.5mm	6mm, 4.75mm, 3mm, 1.5mm	6mm, 4.75mm, 3mm, 1.5mm	6mm, 4.75mm, 3mm, 1.5mm	6mm, 4.75mm, 3mm, 1.5mm

Polycam Serrated/Food Closures



Part #	PS416	PS423	PS354	PS364	PS378	PS405
Size/Finish	38/400	38/400	33/400	33/400	33/400	33/400
Seal Type	Arc	Liner	Liner	Liner	Arc	Flexible Arc
Lining	Yes	Yes	Yes	Yes	Yes	Yes
Emboss	Yes	Yes	No	No	No	No
Orifice Sizes	7.6mm Baffled Flow Dispense	Teardrop w/ Pour Lip	6mm, 3mm	16mm, 6mm, 3mm	6mm, 3mm	6mm Keyhole



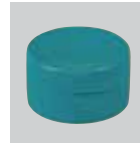
Part #	PS368	PS381	PS382	PS383	PS385	PS386
Size/Finish	38/400	38/400	38/400	38/400	38/400	38/400
Seal Type	Liner	Arc	Arc	Liner	Liner	Arc
Lining	Yes	Yes	Yes	Yes	Yes	Yes
Emboss	Yes	Yes	Yes	Yes	Yes	Yes
Orifice Sizes	12.7mm, 9.5mm, 6mm	5mm x 24.5mm Ribbon	28.5mm	28.5mm	5mm x 24.5mm Ribbon	9.5mm, 6mm

Polycam Inverted



Part #	PS408	PS412	PS413	PS407	PS409	PS410	PS414	PS420
Size/Finish	33/400	33/400	33/400	38/400	38/400	38/400	38/400	38/400
Seal Type	Arc	Liner	Liner	Arc	Arc	Arc	Liner	Liner
Lining	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Emboss	No	No	No	No	No	No	No	No
Orifice Sizes	4mm Enhanced Flow Dispense	6mm Baffled Flow Dispense	4.75mm x 19mm Ribbon	4mm Enhanced Flow Dispense	9.5mm Flow Through Dispense	6mm Baffled Flow Dispense	4.75mm x 19mm Ribbon	18.5mm Flow Through Dispense

Tube Closures



Part #	PS391	PS374	PS360	PS406	PS393
Size/Finish	1.375" M8	1.5" 22/400	2" 22/400	2" 22/400	2" 22/400 Matte
Seal Type	"V"	Arc	Arc	"V"	Arc
Lining	Yes	Yes	Yes	Yes	Yes
Emboss	Yes	Yes	Yes	No	Yes
Orifice Sizes	6mm, 4.75mm, 3mm, 1.5mm	9.5mm, 6mm, 4.75mm, 3mm	9.5mm, 6mm, 4.75mm, 3mm	9.5mm, 6.0mm, 4.75mm, 3mm	9.5mm, 6mm, 4.75mm, 3mm



Part #	PS415	PS418	PS419	PS392	PS369
Size/Finish	2" 22/400	1.5" 22/400	2" 22/400	2" 22/400 Snap On	2" Oval Snap On
Seal Type	"V"	"V"	"V"	Plug	Plug
Lining	Yes	Yes	Yes	No	No
Emboss	Yes	Yes	Yes	Yes	No
Orifice Sizes	9.5mm, 6mm, 4.75mm, 3mm	9.5mm, 6mm, 4.75mm, 3mm	9.5mm, 6mm, 4.75mm, 3mm, 1.5mm	6mm, 4.75mm, 3mm	5mm

Spouted 24mm



Part #	PS110	PS146	PS147	PS258
Size/Finish	24/410	24/410	24/410	24/410
Seal Type	Combination	Land	Valve	Land
Lining	No	No	No	No
Emboss	No	No	No	No
Orifice Sizes	3mm, 2.5mm, 1mm	3mm, 2.5mm, 1mm	3mm, 2.5mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm



Part #	PS202	PS162	PS163
Size/Finish	24/410	24/410	24/410
Seal Type	Land	Valve	Land
Lining	Yes	No	No
Emboss	No	No	No
Orifice Sizes	4mm, 3mm, 2.5mm, 2mm, 1mm, 4 Hole Spray	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm

Orifice Sizes

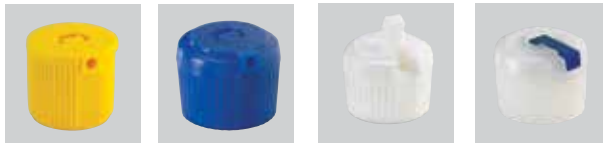
5mm x 24.5mm 0.2" x 0.962"	4.75mm x 19mm 0.188" x 0.75"	28.5mm 1.122"	16mm 0.625"	12.7mm 0.5"	9.5mm 0.375"	6mm 0.25"	5mm 0.2"	4.75mm 0.188"	4mm 0.160"	3mm 0.125"	1.5mm 0.06"	
Dropper Tip 0.4mm 0.016"	0.8mm 0.030"	1mm 0.040"	1.5mm 0.055"	2mm 0.078"	Angle Jet 2mm x 2mm 0.076" x 0.076"	2.5mm 0.093"	3mm 0.125"	4mm 0.160"	3mm x 4.5mm 0.122" x 0.180"	3mm x 6mm 0.122" x 0.244"	3.5mm x 6mm 0.145" x 0.244"	4 Hole Spray

Unique/Double Walled



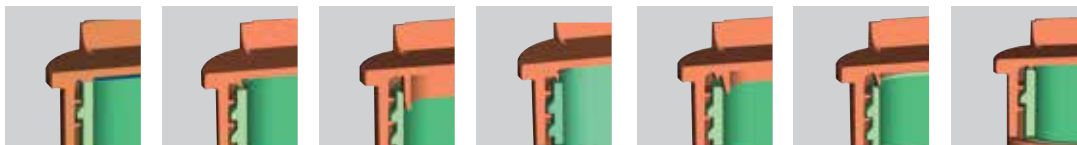
Part #	PS344	PS400	PS424	PS429	PS430
Size/Finish	2" 24/410	1.5" 24/410	Pouch Fitment	Pouch Fitment	Pouch Fitment
Seal Type	Arc	Arc	N/A	N/A	N/A
Lining	No	No	Yes	Yes	Yes
Emboss	No	No	No	No	No
Orifice Sizes	6mm, 3mm	3mm	6mm	8.6mm	4mm x 8.6mm Ribbon

Spouted 18 & 20mm



Part #	PS196	PS115	PS149	PS249
Size/Finish	18/410	20/410	20/410	20/410
Seal Type	Valve	Land	Valve	Valve
Lining	No	No	No	No
Emboss	No	No	No	No
Orifice Sizes	3mm, 2.5mm, 2mm, 0.8mm, 0.4mm Dropper Spout	3mm, 2.5mm, 2mm, 1mm	3mm, 2.5mm, 2mm, 1mm	3mm, 2.5mm, 2mm, 1mm

Seal Types



Flat/Liner Seal

Arc Seal

Plug Seal

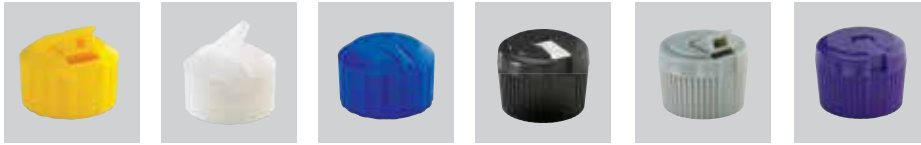
Land Seal

Combination
Land and
Valve Seal

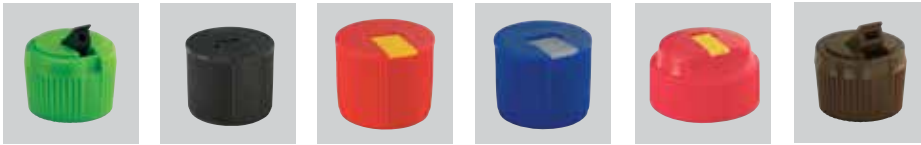
Valve Seal

"V" Seal

Spouted 28 & 33mm



Part #	PS254	PS255	PS256	PS121	PS134	PS168
Size/Finish	28/400	28/400	28/400	28/410	28/410	28/410
Seal Type	Land	Valve	Land	Land	Land	Valve
Lining	Yes	No	Yes	No	No	No
Emboss	No	No	No	No	No	No
Orifice Sizes	3mm x 6mm, 3mm, 2.5mm, 2mm, 1mm	3mm, 1.5mm	3mm, 1.5mm	3mm, 2.5mm, 2mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm	3mm, 2.5mm, 2mm, 1mm



Part #	PS218	PS326	PS352	PS398	PS226	PS187
Size/Finish	28/410	28/410	28/410	28/410	33/400 SpHL	28/410
Seal Type	Combination	Land	Arc	Plug	Liner	Valve
Lining	No	Yes	Yes	No	Yes	No
Emboss	No	No	No	No	No	No
Orifice Sizes	3mm, 2.5mm, 2mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm	4mm, 3mm, 2.5mm, 2mm, 1mm	3mm x 6mm, 3mm x 4.5mm, 3mm, 2.5mm, 2mm, 1mm

Friction Fit & Child-Resistant/Applicator Caps



Part #	PS194	PS417	PS211	PS186
Size/Finish	24/410 CR	33/400	28/410 CR	5/8" FF, CR
Seal Type	Valve	Valve	Valve	Plug
Lining	No	No	No	No
Emboss	No	No	No	No
Orifice Sizes	2mm x 2mm, 4mm, 3mm, 2mm	3.8mm	2mm x 2mm, 4mm, 3mm, 2mm	2mm, 1.5mm, 0.8mm

CR caps may be included in child-resistant applications when appropriately tested and certified using your completed package.

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