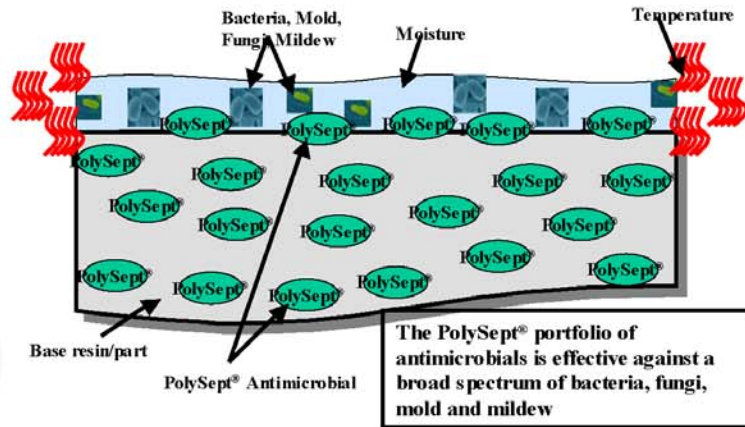




## PolySept<sup>®</sup>



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## PolySept<sup>®</sup>

**Portfolio of Antimicrobial Additives and Masterbatches to Suit Your Application Needs**

### PolySept<sup>®</sup> L

Organic based antimicrobial with broad spectrum of inhibition. Produces renewed active surface due to migration of active ingredient. Processable up to 200°C. Suggested active content level of 1.5% – 3.0%. Sold as 100% active liquid or as a masterbatch in polyolefins.

### PolySept<sup>®</sup> Z

Organic salt based, controlled antimicrobial with broad spectrum of inhibition. Processable up to 230°C. Suggested active content level of 0.2% – 0.5%. Sold as 100% active powder or as a masterbatch for polyolefins, PVA, and styrenics.

### PolySept<sup>®</sup> V

Organic salt based, controlled antimicrobial with broad spectrum of inhibition. Processable up to 230°C. Suggested active content level of 0.2% – 0.5%. Sold as 100% active powder or liquid, or as a masterbatch for polyolefins, PVA, and styrenics.

### PolySept<sup>®</sup> Ag

Inorganic based, non-migratory antimicrobial with broad spectrum of inhibition. Processable up to 500°C. Suggested active content level of 0.5% – 3.0%. Sold as 100% active powder or as a masterbatch for polyolefins, styrenics, and engineering resins.

### Applications:

Medical devices, consumer goods, kitchen and bath appliances, paints and coatings, furniture, bedding, textiles, carpeting, films, and filtration.

**We provide in-house "FREE LABORATORY TESTING" service for all of our customers.**



## PolySept® Antimicrobials Product Line

ASTM G2180 Tested to Gram +ve, Gram -ve Bacteria

Test Methods Used	PolySept®-AG	PolySept®-L	PolySept®-V	PolySept®Z
<b>Efficacy</b>				
Bacteria	Y	Y	Y	Y
Yeast	Y	Y	Y	Y
Algae	Y	Y	Y	Y
Mold	Y	Y	Y	Y
<b>Approvals</b>				
FDA Approvals	Not Required	Y	N	N
EPA Approvals	Y	Y	Y	Y
USP Class IV	Y	Y	Y	Y
NSF Water contact	Y	N	N	N
HVAC contact	Y	Y	Y	Y
<b>Material Attributes</b>				
Organic / Inorganic	Inorganic	Organic	Organic	Organic
Original Form	Powder	Liquid	Liquid	Powder
Masterbatch active content	50%	20%	20%	10 – 50%
Active content use	0.5% - 3.0%	1.5% - 3.0%	0.2% - 0.5%	0.2% - 0.5%
Migratory / Non-migratory	Non-migratory	Migratory	Migratory	Non-migratory
Thermal Stability	>400°C	~200°C	~230°C	~230°C
<b>Index of Solubility</b>				
Aqueous	Non-leaching	Non-leaching	Non-leaching	Non-leaching
Alcohol	Non-leaching	Leaching	Leaching	Non-leaching
Organic	Non-leaching	Leaching	Leaching	Non-leaching
<b>Resins</b>				
Polyolefins	Y	Y	Y	Y
Styrenics	Y	Y	Y	Y
Acrylics	Y	N	N	N
Engineering thermoplastics	Y	N	N	N
High-temperature resins	Y	N	N	N
Thermosets	Y	Y	Y	Y
<b>Processing</b>				
Injection molding	Y	Y	Y	Y
Extrusion	Y	Y	Y	Y
Rotomolding	Y	Y	Y	Y
<b>Applications</b>				
Paints, coatings	Y	Y	Y	Y
HVAC	Y	Y	Y	Y
Textiles, carpeting	Y	Y	Y	Y
Furniture	Y	Y	Y	Y
Kitchen appliances	Y	Y	Y	Y
Bathroom fixtures	Y	Y	Y	Y
Non-wovens	Y	Y	Y	Y