

Polymer Selection for Nonwovens

Technology and Service On Demand



Mallard Creek Polymers, Inc. combines technology and experience in the nonwovens market to provide innovative products to fill your needs. Because MCP is customer focused and driven, we pride ourselves with developing strong relationships with customers to bring ideas to the market place quickly; through new polymer development to technical assistance every step of the way.

MCP offers a variety of binders which can be easily applied by conventional methods such as froth, spray or saturation. These binders have been designed for a wide range of nonwovens markets including disposable, durable, high-loft and industrial nonwovens. These binders produce effects ranging from a soft feel to a very stiff feel, provide strength, toughness, resistance properties, hydrophobicity or hydrophilicity and heat seal-ability. Our technical service personnel will help you in choosing the proper binder for each of your applications.



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Versatile and economical ROVENE® emulsion polymers find a wide range of usage in almost all types of nonwoven products and markets; disposable, semi-durable and high-loft. For disposable and semi-durable products, the ROVENE polymer emulsion technologies are designed to wet out many different synthetic and natural fibers rapidly and provide excellent fiber binding while imparting a balance of required properties to the finished product.

Styrene Acrylic

Product	Solids %	Viscosity cps	pH	Tg °C	Comments
Rovene 18106	51.0-52.0	400 max	7.0-7.5	+10	Carboxylated; excellent mechanical stability; good water and grease resistance; paper and paperboard functional coatings
Rovene 6017	44.0-46.0	100 max	2.0-3.0	+30	Stiff; self crosslinking; nonwoven; paper saturation
Rovene 6066	49.0-51.0	400 max	6.0-7.0	+97	Very stiff; binder formulated for moldable and self supporting substrates

Vinyl Acrylic

Product	Solids %	Viscosity	pH	Tg °C	Comments
Rovene 40554	46.0-48.0	200 max	4.5-5.5	-11	Medium soft; excellent mechanical stability; nonwoven; paper saturation
Rovene 68763	45.0-47.0	200 max	4.5-5.5	-8	Medium soft; good water and solvent resistance when cured; good aging characteristics

Acrylic

Product	Solids %	Viscosity cps	pH	Tg °C	Comments
Rovene 6050	49.0-51.0	30-120	6.0-7.0	-38	Permanent label adhesives; high peel/tack; require minimum tackifiers; excellent clarity
Rovene 6014	44.0-46.0	400 max	4.5-6.0	+27	Self crosslinking; frothable; good water and chemical resistance; good heat and UV resistance; stiffening binder for filtration media

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability.



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