



Mallard Creek Polymers



Barrier Coatings Guide



Your Polymer Partner

Mallard Creek Polymers has products optimized for the many substrates found in packaging applications, such as coated paper, paperboard and flexible films. Functional barrier coatings help extend shelf life of foods by providing a barrier to moisture vapor and oxygen, and they can provide oil, grease and water resistance. MCP has a line of styrene-butadiene emulsion polymers that provide low moisture vapor transmission rates (MVTR) and excellent water resistance, while the Tykote® acrylic polymer emulsions deliver oil and grease resistance in formulated coatings.

STYRENE-BUTADIENE

Product Name	Tg (°C)	MFFT (°C)	Solids (%)	pH	Viscosity (cPs)	APEO Free	Application	Application Method	Cobb	MVTR	OGR
Tykote 1004	12	13	52	8.1	<1000	●	Functional barrier	Rod, knife, curtain	Good	Superior	Good
Tykote 1014	12	13	52	8.3	<1000	●	Functional barrier	Rod, knife, curtain	Good	Superior	Good
Tykote 1005	18	18	51	8.5	<1000	●	Functional barrier	Rod, knife, curtain	Excellent	Excellent	Good
Tykote 1015	18	18	51	8.5	<1000	●	Functional barrier	Rod, knife, curtain	Excellent	Excellent	Good
Tykote 1019	14	14	53	7.5	<850	●	Functional barrier	Rod, knife, curtain	Superior	Excellent	Good
Rovene 4100	-5	-	50	6.3	<600		White paperboard coating and primer	Rod, knife, curtain, gravure	-	-	-
Rovene 4119	14	14	53	7.5	<850	●	General paperboard coatings	Rod, knife, curtain	Excellent	Excellent	Good
Rovene 4106	69	53	50	8.8	<600	●	Anti-blocking modifier	Rod, knife, curtain	-	-	-

ALL ACRYLIC

Product Name	Tg (°C)	MFFT (°C)	Solids (%)	pH	Viscosity (cPs)	APEO Free	Application	Application Method	Cobb	MVTR	OGR
Tykote 6160	7	5	49	8.6	<1000	●	Functional barrier	Flexo, gravure, rod, knife, curtain	Excellent	Good	Superior
Tykote 6161	20	14	48	8.2	<5000	●	Functional barrier	Flexo, gravure, rod, knife, curtain	Excellent	Good	Superior
Tykote 6152	20	13	46	8.5	<1000	●	Functional barrier	Flexo, gravure, rod, knife, curtain	Good	Good	Excellent
Rovene 6400	20	16	49	8.5	<850	●	General paper coatings	Flexo, gravure, rod, knife, curtain	-	-	-

STYRENE-ACRYLIC



8901 Research Drive
Charlotte, NC 28262

1-877-240-0171

info@mcpolymers.com

www.mcpolymers.com



Siemensstraße 42
59199 Bönen, Germany

+49 2383 919-562

www.mcpolymers.com/mcp-europe