



RESINS PRODUCT GUIDE FOR PAPER, NONWOVENS, & TEXTILES

Lubrizol

Performance Coatings

www.lubrizol.com/coatings

ENABLING CUSTOMER SUCCESS



Industry Knowledge

With an experienced team of coating, ink, and composite specialists, Lubrizol is dedicated to close collaboration with customers and industry experts to gain and share industry knowledge, insights, and solutions.

Technical Support

Lubrizol staffs fully-equipped labs in Europe, North America, Latin America and Asia to bring regional formulation capabilities and support to customers, wherever they are in the world.



Quality

From product development to production and distribution, we carefully control all processes to ensure the quality of our products and to enable customers to gain a competitive edge.

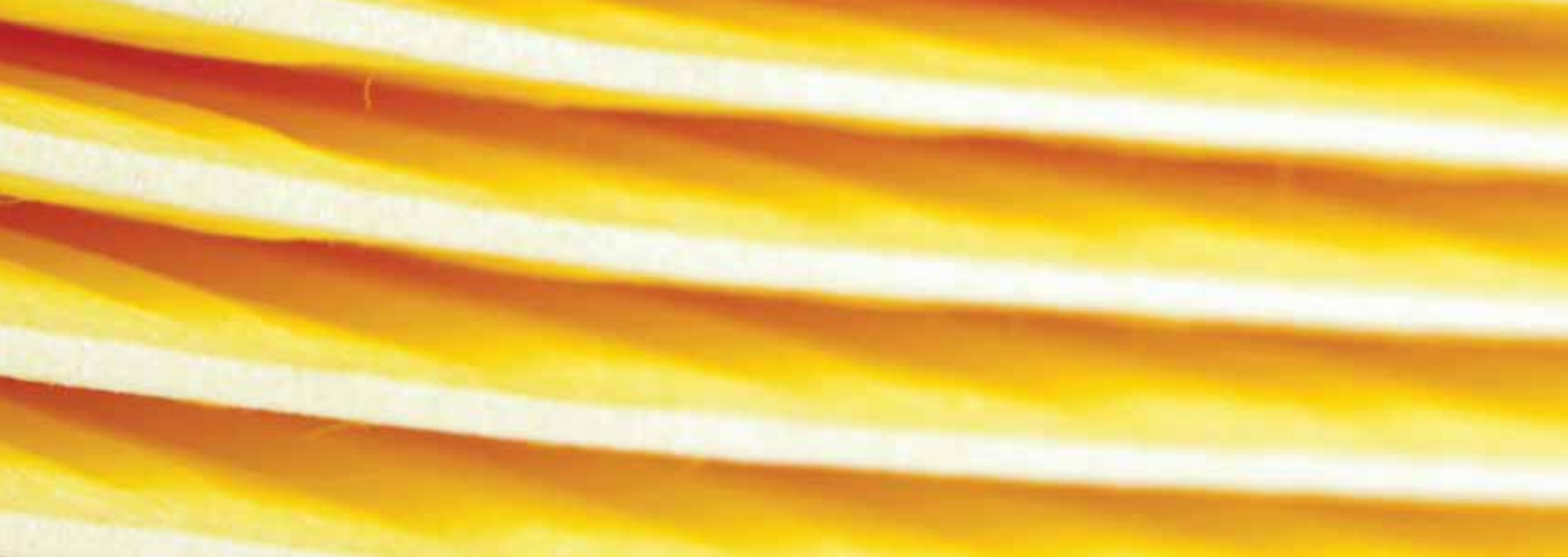
Innovative Solutions

Lubrizol invests in market-driven innovation to address relevant and timely coatings challenges and opportunities for customers.



On-Time Delivery

Product availability and on-time delivery are vital to any business. To answer these needs, Lubrizol has a worldwide network of distribution points. This comprehensive network provides immediate access to customer service.



Textiles

Lubrizol resins can bring a diverse range of performance needs for textile coatings, helping formulators deliver functional benefits such as breathability and cooling, water repellence, flame retardance, abrasion resistance, and durability. Our products are also commonly used to enhance aesthetic properties such as clarity, gloss/matte, hand, drape, noise dampening, and more. With a focus on eliminating materials of high concern, reducing VOC, and enhancing recyclability, our technologies are valuable for customers striving to reach continuously evolving sustainability initiatives for apparel, home furnishing fabrics, transportation and technical textiles.

Paper

Lubrizol resins are commonly used in coatings and impregnable binders for filtration media, wallcovering, tape, and engineered paper for construction, medical, and transportation markets. They deliver diverse functional and aesthetic benefits, including flame retardance, durability, water repellence, and toughness, while helping formulators eliminate materials of high concern, including formaldehyde.

Nonwovens

Lubrizol resins are often demanded for diverse nonwoven fabric applications, such as medical drapes, insulation, linings, and filtration to bring a range of functional benefits such as toughness, durability, fire retardance, and moisture resistance.

Adhesives

For decades, Lubrizol resin technologies have enabled some of the best adhesive technologies on the planet. From adhesive strength, high tack, peel performance, temperature resistance, sheer levels, water/chemical resistance and dry times, formulators count on Lubrizol to help engineer adhesives that meet the demands of some of the world's most basic and challenging adhesive requirements.

Acrylic Emulsions

		Typical Physical Properties								
Lubrizol Product		Tg °C	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Formaldehyde -Free
	Hycar® T-122S	-30	A	48	3.2	1.05	30	•	•	
	Hycar® T-9202	-26	A	59	3.5	1.07	100	•		
	Hycar® T-91	-16	A	50	2.5	1.06	100	•	•	
	Hycar® 26-1199	-15	A	49	3.7	1.06	550		•	•
	Hycar® 26083	-15	A	52.5	6	1.07	55	•	•	
	Hycar® 26552A	-15	A	47	4.5	1.05	110		•	•
Medium	Hycar® 26-0202	-12	A	50	3.7	1.06	450	•	•	
	Hycar® 27019	-12	A	50	4	1.06	125	•	•	
	Hycar® 2671	-11	A	53	5	1.07	170	•	•	
	Hycar® 26120E	-11	A	50	3.8	1.07	115	•		
	Hycar® 26345	-6	A	50	3.6	1.07	20	•	•	
	Hycar® 2679	-3	A	49	3.7	1.06	100	•		
Medium	Hycar® 26796	0	A	48	5	1.07	120	•	•	
	Hycar® FF26916	+2	A	50	8.5	1.06	60		•	•
	Hycar® 26084	+8	A	49	6	1.07	200	•	•	
	Hycar® 26349	+12	A	49	4.6	1.07	135	•		
	Hycar® 26091	+20	A	50	6.8	1.16	30	•	•	
	Hycar® 26-1265	+23	A	49	4	1.06	350		•	•
Medium	Hycar® 26138	+25	A	49	5.5	1.07	60	•		
	Hycar® 26348	+30	A	48.5	6	1.07	200			
	Hycar® 26450	+32	A	46	4	1.06	25	•	•	
	Hycar® 26172	+33	A	50	2.5	1.05	125	•	•	
	Hycar® 26391E	+36	A	50	3.6	1.09	125	•	•	
	Hycar® 26256E	+45	A	50	2.5	1.09	140	•		
	Hycar® 26-1475	+50	A	50	4	1.06	350		•	•
	Hycar® 26315	+55	A	49.5	2.1	1.07	36	•	•	
	Carbocure™ TSR-72	+72	A	35.0	4.6	1.07	50	•	•	
	Hycar® 26459	+103	A	46.5	3.3	1.04	15	•	•	•

**Formaldehyde-free and versions with FDA clearances are available on select polymers.

Acrylic Emulsions

	Lubrizol Product	Further Description/Other Information
	Hycar® T-122S	Flock adhesive/backcoatings, excellent drape. Very good water and solvent resistance.
	Hycar® T-9202	High-solids textile coatings/adhesives.
	Hycar® T-91	Foam/froth backcoatings, excellent durability to laundering/dry cleaning, excellent cold flex.
	Hycar® 26-1199	Formaldehyde-free, soft binder; very hydrophobic.
	Hycar® 26083	Low-temperature flexibility; clear, white-water color; wash and dry clean durable.
	Hycar® 26552A	Formaldehyde-free, hydrophobic polymer, highly redispersible in most processes until cured. Excellent for medical applications.
Medium	Hycar® 26-0202	Self-crosslinking version of Hycar® 26-1199. Ultra-water resistant.
	Hycar® 27019	General purpose coatings/adhesives. Saturation and wet end addition. Excellent color/heat/light stability. Book cover.
	Hycar® 2671	General purpose coatings. Foamable flock adhesives with excellent durability. Good solvent and water resistance.
	Hycar® 26120E	Excellent pigment acceptance. Highly redispersible. Excellent heat stability.
	Hycar® 26345	Foam/froth backcoatings, excellent durability to laundering/dry cleaning, excellent cold flex.
	Hycar® 2679	Fabric laminating, backcoating, flocking finishes. Good general purpose acrylic for saturation, book cover, filter paper.
Medium	Hycar® 26796	Fabric laminating adhesive. Self thickening with ammonia. Good solvent resistance.
	Hycar® FF26916	Formaldehyde-free. Excellent abrasion resistance; heat and light stable.
	Hycar® 26084	Heat seal adhesive with excellent solvent and plasticizer resistance.
	Hycar® 26349	Extremely durable coatings/adhesives. Firm but flexible hand, book cover stock. Solvent and plasticizer resistance.
	Hycar® 26091	Topcoatings with abrasion resistance, high gloss and color stability. Dry cleanable and washable.
	Hycar® 26-1265	Ultra-water resistant. Formaldehyde-free.
Medium	Hycar® 26138	Fabric laminating topcoatings, anti-fray. Outstanding dryclean/laundry resistance. Good thermal stability/solvent resistant.
	Hycar® 26348	Hydrophobic, excellent oil and solvent resistance for tape release coatings.
	Hycar® 26450	Fabric stiffener. High crosslink density. Paper saturant, oil resistant.
	Hycar® 26172	Hand builder, flame retarding finish (with salt). Blends with Hycar® 26171. Self-thickening.
	Hycar® 26391E	Pleatable window shades. Hand builder. Highly water resistant, very good color.
	Hycar® 26256E	Hand builder. Hard glossy topcoatings. Excellent color.
	Hycar® 26-1475	Ultra water resistant and stiff. Formaldehyde-free.
	Hycar® 26315	Heat sealable. FDA compliant direct food contact. Blends with Hycar® 26288. Excellent water resistance.
	Carbocure™ TSR-72	Stiff, high crosslink density polymers. High temperature dimensional stability, moldability. For saturation and spray bond. Excellent oil and solvent resistance.
Hycar® 26459	Crosslinkable polystyrene emulsion. Formaldehyde-free.	

PVC Emulsions

Typical Physical Properties										
	Lubrizon Product	Tg (°C)	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Description/Suggested Uses
PVC-Acrylic Copolymer	Vycar™ FT-9	-13	A	50	8.8	1.09	150	•	•	Flame-retarding backcoatings with excellent cost/performance vs. compounded acrylic.
	Vycar™ 460X46	+7	A	49	5	1.09	40	•	•	
	Vycar™ 460X119	+37	A	48	7	1.12	40	•	•	Develops excellent cure, even at lower temperatures, with or without catalyst. Offers excellent water and chemical resistance, a range of firmness and contributes to flame retardance. Can be used for lamination, heat sealing and general saturation or spray bond.
	Vycar™ 460X122	+40	N	50	5	1.13	20	•	•	Exceptional mechanical stability. For spraying, padding, printing, coating, etc. Excellent water and chemical resistance. Heat sealable.
Special Copolymer	Vycar™ 460X58	+40	A	49.5	6	1.13	20	•	•	Flame retarding coatings for carpeting and furnishing fabrics, including commercial installations. Polymer system provides unique combination of low flame response/low smoke.
Vinylidene Chloride Copolymer	Vycar™ 660X14	+7	A	49	6	1.23	50	•	•	Special flame retardant coatings. Low MVTR.
	Permax™ 805	"MFFT 13.5°C"	A	60	1.7	1.21	80			• VDC acrylic copolymer provides exceptionally low MVTR. For excellent corrosion and humidity resistance.
PVC Copolymer	Vycar™ 351	+62	A	57	10.3	1.16	20			Product family offers excellent wash/wear resistance, chemical resistance, firmness, flame retardance and is formaldehyde-free. Polymers can be used as-is or with various plasticizer levels to control firmness. Useful as saturant spray or coating.
	Vycar™ 352	+69	A	57	10.3	1.16	202			
	Vycar™ 460X104	+70	A	55	8	1.17	15		•	Economical, stiff, flame retarding, formaldehyde-free. Moldable binder for paper saturation and fiber treatment.
	Vycar™ 460X95	+73	A	51	5	1.15	20	•	•	Excellent color and mechanical stability; salt stable. Can be used for lamination, heat sealing and general saturation or spray bond. Flame retarding.
Plasticized PVC	Vycar™ 578	+11	A	56.5	10	1.12	40			Phthalate plasticized. Adhesives/coatings for vinyl. Dielectric or hot bar heat sealable. Yarn sizing. Exhibits low smoke and very low fogging tendencies (SAE test method). Formaldehyde-free.
	Vycar™ 580X83	+17	A	56	10	1.14	30			
	Vycar™ 577	+19	A	56	10.3	1.09	17			Flame retarding finishes for saturation or coating of cellulosic and synthetic fibers. Phosphate plasticized. Acts as dielectric and hot-bar sealable adhesive.

Adhesives

Typical Physical Properties

Product Name	Tg (°C)	Charge	Solids (%)	pH	Viscosity (cP)	Description/Suggested Uses
Carbotac™ 1814	-30	A	55	4.5	80	Pressure sensitive adhesive with moderate tack and peel performance. Suggested for use with substrates where film oil and plasticizer resistance are needed.
Carbotac™ 7197	-35	A	65	6.5	150	High-solids textile coatings/adhesives, very soft, flexible, good wet tack. Exhibits good plasticizer resistance.
Carbotac™ 7446	-55	A	51	7	150	Acrylic pressure-sensitive emulsion with excellent adhesion to treated polyethylene and other low energy substrates.
Carbotac™ 26171	-43	A	50	2.5	125	General purpose adhesive with balance of tack, peel and shear. Self thickening with increasing pH. Formaldehyde-free version of Hycar® 26-1771.
Carbotac™ 7190N	-55	A	54	5	40	Acrylic pressure-sensitive adhesive with high dry tack and excellent adhesion to polyethylene and other low-energy substrates.
Carbobond™ 26387	-23	A	61	5	275	Durable, tough, high-solids acrylic polymer for general purpose adhesives.
Carbobond™ 26373	+5	A	58	2.6	90	Tough, very hydrophobic, high-solids wet laminating adhesive with high green tack. Heat sealable.

Elastomeric Emulsions

Typical Physical Properties

Emulsion	Tg °C	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Description/Suggested Uses
Hystretch™ V-60	-60	A	50	8	1.01	40	•	•	Ultra-soft, hydrophobic, slightly tacky. Anti-skid coatings. Excellent dry tack, will not transfer. APE-free version available.
Hystretch™ V-43 FDA	-43	A	50	8	1.03	200	•	•	Very soft and elastic. Backcoatings, anti-pill, nonwoven and paper saturant.
Hystretch™ V-95	-29	A	50	8	1.04	70	•	•	Soft and elastic. Solvent resistant. Outdoor fabric coatings with excellent UV stability, dirt resistance and low temperature flexibility. APE-free.

HyStretch elastomer emulsions are a Lubrizol breakthrough: patented technology yielding a unique combination of polymer properties. They are as elastic as natural rubber, yet as heat and light stable as synthetic acrylics. Creative formulators have discovered new and innovative applications based on HyStretch emulsions.

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Lubrizol Performance Coatings is a market-driven innovator of specialty chemicals for advanced coatings, inks, and composites. Our portfolio of resin and additive technologies solve challenges across a wide range of markets and applications. Formulators choose Lubrizol to achieve unique performance, productivity, and sustainability benefits. More than just a supplier, we are a collaborator with extensive experience in surface protection, dispersion, adhesion, and barrier properties – working closely with customers to explore and develop truly differentiated solutions.



Performance Coatings

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