



# FORMALDEHYDE-FREE SOLUTIONS

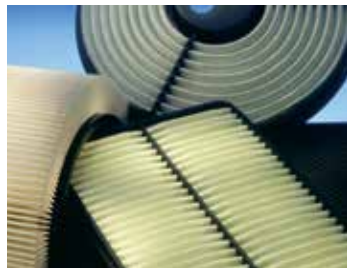
## NONWOVENS, SPECIALTY PAPER AND TEXTILES

Lubrizol offers a wide variety of polymers and custom-formulated solutions for nonwovens, specialty paper and textile applications—including environmentally-friendly, NMP-free and formaldehyde-free alternatives—to impart strength, durability, flame resistance, barrier properties and more. Our formaldehyde-free portfolio consists of a broad line of technologies in which formaldehyde is not known to be present in any of the raw materials used, nor added as a preservative, nor generated during the curing process. Ultimately, this means the formaldehyde level is below the detectable limit of 2 ppm.

## Applications

- Construction
- Filtration
- Transportation
- Medical
- Technical Textiles
- Abrasives
- Tape & Tape Release Coatings
- Wipes
- Thermoset Modification
- Fiberglass Mat
- Gasketing
- Wallpaper

[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)



## The Lubrizol Advantage

Lubrizol polymers help enhance products used in a variety of applications, including surgical nonwovens, filters, gaskets, fiberglass mat, automotive, construction and more. You'll meet your compliance product objectives without sacrificing performance.

**Lubrizol**

**Performance Coatings**

# Formaldehyde-Free\* Products

		Product Characteristics											Suitable Substrates					Additional Information	
Products	Tg °C	Solids	Charge	pH	Viscosity	Carboxylated	Hydrophobicity	Solvent Resistance	Flame Retardance	Wet Strength	Resilience	Pleatability	Cellulosics	Fiberglass	PES & Nylon	Textiles	Other	Market Opportunities	
Soft	Hystretch™ V-90	-43	50	A-N	8	100	•				•		•	•	•	•		Elasticity, soft, recovery	
	Hycar® 26-1199	-15	49	A	4	500	•	•		•	•		•		•	•	•	High surface tension, caustic resistance	
	Hycar® 26552A	-15	47	A	5	110	•	•		•	•		•		•	•	•	Nonwovens, hydrophobic	
	Hycar® 26469	-4	49	N	4	100	•			•	•		•	•	•			Medical, tape	
	Hycar® FF-26916	0	50	A	8	100	•	•	•	•	•		•	•	•	•		Bookcover, glass mat	
	Hycar® 26951	5	44	A	9	100		•	•	•	•		•	•	•	•	•	Good adhesion to polyolefins, low temperature cure	
	Vycar™ 578	11	57	A	10	40		•		•	•	•		•	•	•		Flame retardancy, heat seal-PVC	
Medium	Vycar™ 580X83	17	56	A	10	30		•	•	•	•		•	•	•			Heat seal	
	Vycar™ 577	19	56	A	10	17		•	•	•	•		•	•	•			Heat seal, glass mat	
	Hycar® 26548	20	46	A	3	40	•			•	•		•			•	Food grade, filtration, hydrophillic		
	Hycar® 26-1265	23	49	A	4	350	•	•		•	•		•	•	•	•		Nonwovens - caustic resistance	
	Hycar® 26-1084	27	40	A	4	80	•	•		•	•		•	•	•	•		Nonwicking glass mat	
	Hycar® FF-26921	29	45	A	8	150	•	•	•	•	•		•	•				Glass mat, filter media, fast cure	
	Hycar® 26907	31	48	A	6	100	•	•		•	•		•	•	•			Filtration, low extractable	
	Vycar™ VA-1022	32	57	N	5	1300		•		•	•		•			•		Box board, adhesive, packaging	
Hycar® 26599	42	46	A	3	15	•			•	•		•				•	Food grade, filtration, hydrophillic		
Hard	Hycar® 26-1475	50	50	A	4	350	•			•	•		•		•	•		High surface tension, caustic resistance nonwovens, moldable	
	Hycar® 27005	53	48	A	4	150	•	•		•	•		•	•	•			Nonwovens, moldable, stiffness	
	Vycar™ TN-810	54	52	A	9	20	•		•	•		•		•	•			Nonwovens, flame retardancy, moldable	
	Vycar™ 351	62	57	A	10	20		•	•	•	•		•		•	•		Flame retardancy, pleatable	
	Vycar™ 352	69	57	A	10	20		•	•	•	•		•		•	•		Flame retardancy, pleatable	
	Vycar™ V460x104	73	55	A	9	15	•		•	•	•		•		•	•		Filtration, nonwovens, paper	
	Vycar™ 153	85	50	A	10	20		•	•	•	•						•	Flame retardancy, hard	
	Carboset® 3076	N/A	46	A	3	200	•		•	•	•		•	•	•			Thermoset, B-Stage curable, filtration	
Polyurethane Dispersions			Product Characteristics											Suitable Substrates					Additional Information
	Sancure™ 20025F	SOFT	48	A	8	500	•	•				•			•	•	•	Soft – NMP-free**, heat sealing	
	Permax™ 232	SOFT	35	N	6	750	•				•		•		•	•	•	HMVT, hydrophillic, apparel, construction	
	Permax™ 202	MED	41	N	6	1000	•				•		•		•	•	•	HMVT, hydrophillic, apparel, construction	
	Sancure™ 2715	MED	38	A	8	750	•	•			•		•		•	•	•	Paper saturation, compounding	
	Sancure™ 861	MED	40	A	8	1000	•	•							•	•	•	Hook & loop, scrub pad, military	
Sancure™ 20041	FIRM	45	A	8	100	•	•									•	Hard – NMP-free**		

\*Formaldehyde content is below the detectable level of 2 ppm.

\*\*Not intentionally used in the formulation, but trace amounts may be detectable at less than 0.1% and typically less than 0.05%.



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