



## NeoResins

### NeoPac R-9000

NeoPac R-9000 is a solvent-free aliphatic urethane acrylic copolymer designed for coating wood and plastic substrates. NeoPac R-9000 exhibits excellent flexibility and elongation, combined with good hardness and abrasion resistance.

NeoPac R-9000 has wide formulating latitude. It can be blended with NeoCryl acrylic emulsions for improving such properties as adhesion to plastic substrates. It can also be used with a range of solvents, such as isopropyl alcohol, to control drying in applications such as flexographic inks.

#### Key Benefits

- Solvent Free, Low VOC
- Excellent Flexibility
- Excellent Impact Resistance
- Excellent Abrasion Resistance

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#### Typical Properties

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Total solids, by weight, %	40
Total solids, by volume, %	35
pH	8.2
Viscosity, Brookfield, 25°C, cps	150
Weight per gallon, 25°C, as supplied, lbs	8.95
Acid number, on solids	16
Thermal stability, 52°C, two weeks	Satisfactory
VOC, (g/l)	36
Volatile Organic Compounds, by weight:	
Triethylamine, %	1.2

Bulletin R-9000  
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### DRY TIMES OF NEOPAC R-9000<sup>(1)</sup>

Set to touch	20 minutes
Dry to touch	40 minutes
Through dry	2 hours

### FILM PROPERTIES

Pencil hardness	2H
König hardness	55
Impact resistance, direct	160 in. lbs
Impact resistance, reverse	160 in. lbs
Flexibility, 1/8"	pass
MEK, double rubs	85

### FREE FILM PROPERTIES

Tensile strength	4000 psi
Modulus, 100%	2000 psi
Elongation	620%

<sup>(1)</sup> 1.2 mils dry, tested on glass, 75°F, 45% relative humidity

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### ADHESION OF NEOPAC R-9000 TO PLASTICS

NeoPac R-9000, because it is solvent free, exhibits very selective adhesion to some plastics. To enhance the adhesion, the addition of cosolvent is required. Table I exhibits the adhesion of NeoPac R-9000, as supplied, to several types of plastics and the adhesion after the addition of 10% n-methyl pyrrolidone.

**TABLE I**

	<b>NeoPac R-9000</b>	<b>NeoPac R-9000/10% m-pyrol</b>
Lexan FL-9000	OB	4B
Lexan 4291	OB	3B
Noryl N225	OB	2B
Noryl GTX910	OB	1B
RRIM	5B	--
ABS	1B	3B

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### Raw Material Suppliers

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Material	Supplier
N-Methyl Pyrrolidone	GAF (201) 628-3000

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