

Novomer NB-10

Polycarbonate

Novomer, Inc.

Message:

NB-10 and NB-20 are polymers produced from propylene oxide and carbon dioxide. They are amorphous, linear, aliphatic polycarbonate polymers. Carbon dioxide accounts for approximately 40% of the polymer mass.

Applications:

NB polymers can be used as binders or additives to improve the properties of coatings or binders for high performance applications such as electronics, brazing, and ceramics where rapid decomposition and low ash content are advantageous.

Features:

The NB polymers oxidize and volatilize rapidly and uniformly into carbon dioxide and water with low ash residue compared to existing binders. Its negligible contamination makes it ideal as a sacrificial material for high performance applications. It decomposes rapidly and cleanly and is environmentally friendly. The NB polymers decompose at relatively low temperatures and are soluble in many common, low cost solvents including acetone and methyl ethyl ketone.

General Information		
Features	Aliphatic	
	Amorphous	
	Environmentally Sound	
Uses	Binder	
	Coating Applications	
	Electrical/Electronic Applications	
Appearance	Clear/Transparent	
Physical	Nominal Value	Unit
Density	1.20	g/cm ³
Acid Number	< 0.50	Mg KOH/g
Ash Content	< 1	ppm
Decomposition Temperature	210	°C
Molecular Weight	1000	g/mol
Viscosity (75°C)	10.0	Pa · s
Water Content	< 1000	ppm
Polydispersity	1.10	
Uncured Properties	Nominal Value	
	Amber	
Color	Yellow	

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