NEOMA™ - general characteristics

Characteristic	Test method	Test result	
Combustibility	• JIS D 1201 : 1998	Self extinguishing Dist.: 0 mm Time: 0 sec.	
Linear expansion	• JIS K 7197 : 1991	≤ 10^{-5} cm/cm·°C	
Weather resistance	• JIS D 0205 1,000 hr, Sunshine Weatherometer, 2 yr outdoor equiv.	Browning, no damage or volume loss	
Ignition temp.	• JIS K 2265-2	≥ 259°C	
Combustion temp.	• ASTEM E 659	≥ 514°C	
Limiting oxygen index	• JIS K 7201	≥ 28	
Smoke generation under combustion	• ASTM E 662-05	Max. light atten. coeff. 2	
Gas generation under combustion	• JIS K 7217	Carbon monoxide	8.3 mg/g
		Carbon dioxide	2300 mg/g
		Hydrogen chloride	N/D
		Hydrogen cyanide	N/D
		Sulfur oxide	3.0 mg/g
		Nitrogen oxide	0.46 mg/g
		Ammonia	0.44 mg/g
Formaldehyde gas release	• Ion chromatog. • JIS A 9511	Rate: ≤ 5 μg/(m²·h) (Class F☆☆☆☆)	

Property	Substance	Test result (Weight Change)
Chemical resistance ASTM D 543	• Automotive oil • Gasoline • Terpene oil • Kerosene oil • Olive oil • Benzene • Methylene chloride	≤ ± 100%
	• Ethanol	> 100% , ≤600%
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	• Carbon tetrachloride • Methyl ethyl ketone	≤ ± 100%
	• Acetone	> 100% , ≤600%
	• Perchloroethylene • Distilled water • Saturated saline	≤ ± 100%
	• Conc. sulfuric acid	Dissolution
	• 10% Sulfuric acid	≤ ± 100%
	• Conc. nitric acid	Dissolution
	• Conc. hydrochloric acid	> 100% , ≤600%
	• 10% Hydrochloric acid	≤ ± 100%
	• 10% Ammonia	> 100% , ≤600%
	• Conc. sodium hydroxide	≤ ± 100%
	• 10% Sodium hydroxide	> 600%

Property, Test method	Type or substance	Result
Toxicity OECD Guideline	• Acute oral toxicity • Acute precut. toxicity • Acute skin irritancy • Skin sensitization • Acute eye sensitization • Mutagenicity • Acute inhalation toxicity	None
Toxicity at disposal Elution Test Annual No.13 of Environ. Agency, 1974	• Total mercury • Alkyne mercury • Cadmium • Lead • Hexavalent chromium • Arsenic • Cyanogen • PCB • Trichloroethylene • Tetrachloroethylene • Methyldimedone • Methylparathion • Phosphorus • EPN Ethyl-P-Nitrophenyl phenylthiophosphonothiate	N/D