



EcoFlameRetardant-NPB-1000

**EcoFlameRetardant NPB-1000**

**Brief Introduction:**

-EcoFlameRetardant NPB-1000 is a new, highly efficient reactive flame retardant which contains phosphorus, nitrogen and bromine. It shows better performance on flame retardancy with lower loading level than some other brominated flame retardants, such as DBDPO, TBBA, BDDP, TBC, etc.

-EcoFlameRetardant NPB-1000 has significant processing thermal stability, excellent water and light resistance, and is non-blooming and non-toxin.

**Technical Data Sheet**

<b>Appearance</b>	White powder
<b>Br Content</b> %	28% min
<b>P Content</b> %	25% min
<b>N content</b> %	3% min
<b>Loss on drying</b> %	0.5% max
<b>TGA 1%</b>	275

**Counter Grade:** Phoslit 8631C of Italmatch

**Applications:** It is applicable to Polyolefin: PP, TPO, HDPE, etc.

**Formula Direction:** pp

Formular	1#	2#	3#	4#	5#	6#
<b>PP homopolymer (MI 10)</b>	<b>99</b>	/	/	/	/	/
<b>PP homopolymer (MI 0.3)</b>	/	<b>98</b>	/	/	/	/
<b>PP copolymer (MI 7)</b>	/	/	<b>98</b>	/	/	/
<b>PP+20% Calcium Carbonate</b>	/	/	/	<b>98</b>	/	/
<b>PP+30%GF</b>	/	/	/	/	<b>98.5</b>	/
<b>TPO (Q100F)</b>	/	/	/	/	/	<b>97</b>
<b>EcoFlame NPB-1000</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1.5</b>	<b>3</b>
<b>Flame Retardancy</b> LOI (%)	<b>27</b>	<b>25</b>	<b>25</b>	<b>24</b>	<b>26</b>	<b>24</b>
UL-94(3.2mm)	<b>V2</b>	<b>V2</b>	<b>V2</b>	<b>V2</b>	<b>V2</b>	<b>V2</b>
UL-94(1.6mm)	<b>V2</b>	<b>V2</b>	<b>V2</b>	<b>V2</b>	<b>V2</b>	<b>V2</b>

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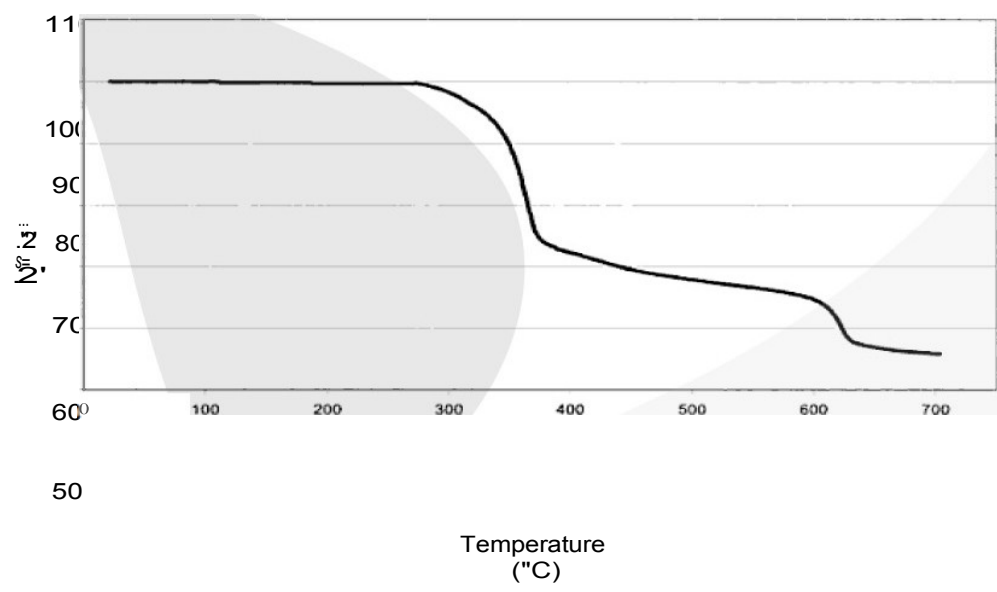
Environment Standard

	ROHS	ELV	EN71-3*	EcoFlameRetardant NPB-1000
<b>Pb</b>	<1000ppm	<1000ppm	0.7ug	<02ppm
<b>Hg</b>	<1000ppm	<1000ppm	0.5ug	<02ppm
<b>Cd</b>	<1000ppm	<100ppm	0.6ug	<1ppm
<b>Cr(VI)</b>	<1000ppm	<1000ppm	0.3ug	<15ppm
<b>Sb</b>			0.2ug	<1ppm
<b>As</b>			0.3ug	<1ppm
<b>Ba</b>			25ug	<30ppm
<b>Se</b>			5ug	<1ppm

EN71-3\*max volume for baby.

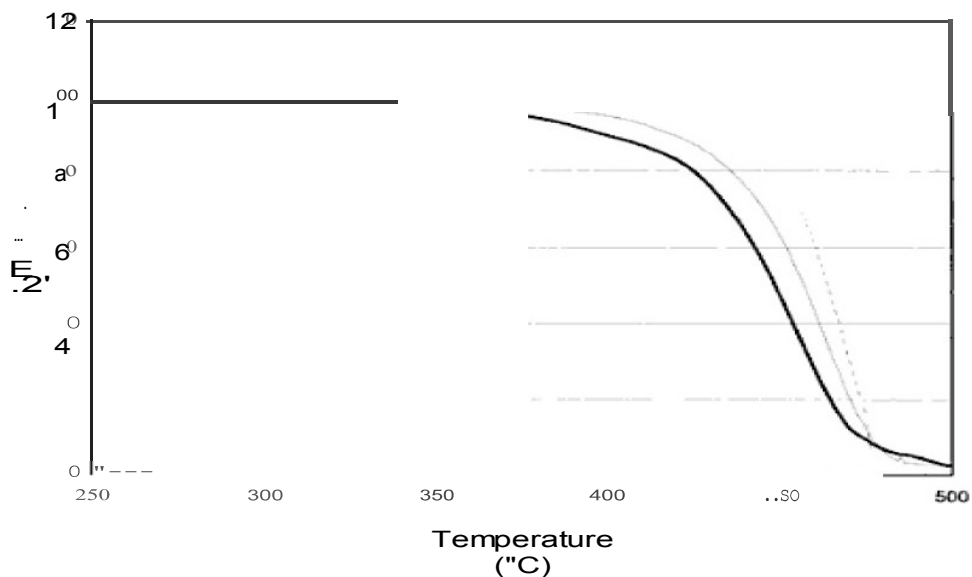
Thermal Stability:

TGA for EcoFlameRetardant NPB-1000



TGA for Pure PP, PP+ FR-NPB 1%, PP+ EcoFlameRetardant NPB-1000 2%

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#### Processing Thermal Stability :

PP compounding with EcoFlameRetardant NPB-1000 shows better flow ability than other flame retardants after processing of screw.

	First MI(g/10min)	Third MI(g/10min)	Fifth MI(g/10min)
pp	14	14	15
PP+ EcoFlameRetardant NPB-1000 1%	18	20	21
PP+ EcoFlameRetardant NPB-1000 2%	20	22	23
PP+ EcoFlameRetardant NPB-1000 3%	21	23	25

#### Glow Wire Test OEC 60695-2-13)

	PP+ EcoFlame NPB-1000
GWIT 3.2mm	775°C
GWIT 1.6mm	875°C
GWIT 0.8mm	925°C

Packing:

Packing in 25kg paper bag.  
Total 18MT in 20'FCL.

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