



EcoFlameRetardant-APP208

Flame Retardant Synergistic Agent

EcoFlameRetardant APP208

Description:

APP 208 is a polyphosphate which was produced by special technics, N>1000. It is hardly soluble in water, insoluble in organic solvent. Non-water absorption & Non-flammability. Comparing with normal ammonium polyphosphate, it is hardly soluble in water and lower the viscosity of solution. In addition, It improves the synergistic effect with halogen flame retardant and facilitates the output of coke which slow down the heat decomposition reaction. The most important, it could replace the application of Antimony Trioxide 50% in most of fields. It conform to SVHC.

Physical and Chemical Properties

Phosphorus	%(w/w)	31-32
Nitrogen	%(w/w)	12
pH value	(10% suspension)	7-8
Water content	%(w/w)	0.2
Thermal decomposition	OC	380
Density at 25 °C	kg/L	1.9
Apparent density	kg/L	0.7
Viscosity (25°C in 10% suspension)	mPa.s	80
Solubility in water (g/100cm ³)	%(w/w)	0.01
Average particle size	um	0.9-1.5
Whiteness	ISO	98

Formula Suggestions:

ABS Formula

ABS	80
YCFR-245	15
ATO	2.5
APP-208	2.5

ABS	78
YCFR-03	13
ATO	2-3
APP-208	1-2
High glue powder (impact modifier)	5

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PP Formula

PP	91.5
YCFR-05	5
ATO	1.5
APP-208	1

HIPS Formula

HIPS	79
YCFR-03	13
ATO	2
APP-208	1-2
SBS (impact modifier)	5

PA6+GF Formula

PA6	45
YCFR-03	15
ATO	3.5-2.5
APP-208	1.5-2
POE-MA (impact modifier)	5
GF	30

PBT+GF Formula

PBT	45
YCFR-301	15
ATO	3.5
APP-208	1.5
GF	30

PA66+GF Formula

PA66	45
YCFR-03	15
ATO	3.5
APP-208	1.5
POE-MA (impact modifier)	5
GF	30

Shipping Information

The package is 25kg craft paper bag inner-lined with PE bag or on customer's request and can be loaded 17.5mt with pallet in one full 20FCL.

Material Safety Data Sheets

Available on request.

Hazards identification: None

*The substance is not subject to IMO TMDG.

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