

NYACOL NYAGRAPH 351 DATA SHEET

NYACOL® NYAGRAPH 351

Expandable Graphite Flame Retardant

Nyacol NYAGRAPH 351 is an intumescent flame retardant that offers the following advantages:

• Halogen-free

Low smoke

Non-dripping

· Reduced heat release

· Lower in toxic gases

Insulating

NYAGRAPH 351 is a natural material based on processed graphite ore.

The ore is treated with sulfuric acid in what is called an intercalation process.

The material is washed and neutralized to prevent corrosion of metal parts when processed by the user.

Excessive shear should be avoided.

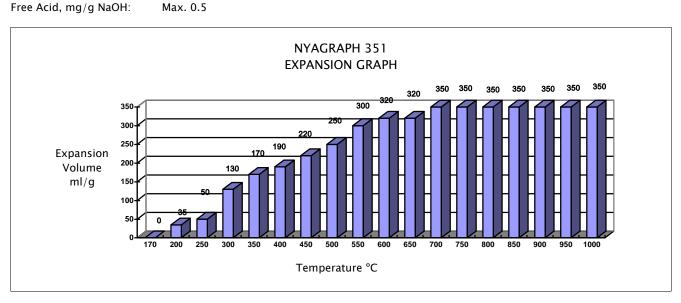
NYAGRAPH 351 may be used in polyurethanes, sealants, bitumens, rubbers, adhesives, coatings, and polymers.

NYAGRAPH 351 may also be used in conjunction with other flame retardants to provide improved flame-retardant and smoke-suppressant properties to a material.

TYPICAL PROPERTIES

TYPICAL PARTICLE SIZE DISTRIBUTION, %

Particle Size, % 50 mesh:	Min. 80 (over 20 mesh 0%)	Over 840µm	0.4
Appearance:	Soft black particles	840μm – 710μm	1.1
pH:	6 - 8	710µm – 630µm	1.7
Onset Temperature, °C:	165 - 185	630µm – 500µm	11
Expansion Volume, cm ³ /g:	330 - 350	500µm – 425µm	2
Moisture, %:	0.2 - 1.0	425µm – 355µm	52.2
Purity, %:	98.0 - 99.5	355µm – 300µm	13.6
Specific Gravity, g/cm ³ :	2.1 - 2.3		
Bulk Density, g/cm ³ :	0.55 - 0.75		



FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER

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