

Vertex[®] 100

MAGNESIUM HYDROXIDE

DESCRIPTION

Vertex[®] magnesium hydroxide products provide excellent fire retarding and smoke suppression performance for the thermoplastic and elastomeric compounds. At 330°C, they decompose in an endothermic reaction to form water and magnesium. Vertex 100 is an untreated product that provides superior fire performance and enhanced mechanical properties when used to make fire-rated thermoplastic compounds. Vertex 100 can be used in polyolefins, EPR/EPDM, PVC and certain engineering thermoplastics such as polyamides to make zero-halogen or low-smoke compounds.

GENERAL PHYSICAL AND CHEMICAL PROPERTY DATA

Physical Property	Unit	Typical Value
Specific Gravity	g	2.36
Color		White
Refractive Index		1.58
Hardness	Mohs	2.5
325 Mesh Residue	%	0.3
Median Particle Size by Sedigraph	Microns	1.1
Median Particle Size by Laser Light Scattering	Microns	1.5
Specific Surface Area (BET)	m ² /g	14
Free Moisture @105°C	%	0.3

Chemical Property	Unit	Typical Value
Magnesium Hydroxide, Mg(OH) ₂	%	≥99
Calcium	%	≤0.6
Chloride	%	≤0.3
Iron	%	≤0.08
Loss on Ignition (1200°C)	%	≥31