



Mineral flame retardant for polymers EcoPiren® 3,5LC*

* The median particle size (Dso) of this product is 3,5 μ m measured by laser diffraction. When measured by sedimentation technique the Dso is 1,5 μ m

Description

A fine white powder of magnesium hydroxide. Produced from selectively mined natural magnesium hydroxide (ground brucite) by milling and classification.

Parameter

Application

Specification

Used as flame retardant filler for polymeric materials for achieving of high oxygen index (LOI), and for ensuring of the absorption of smoke and toxic gases. Typical application is HFFR and PVC cable jacketing and insulation.

Typical

	Parameter		Specification	Гурісаі
	MgO/Mg(OH) _{2,} %		64.0/92.8 min.	64.8/94
	CaO, %		2.3 max	2.1
	SiO ₂ , %		1.3 max	1.2
	Fe ₂ O ₃ , %		0.13 max.	0.11
	Loss on ignition at 950 °C, %		30-32	31
	Specific gravity**, g/cm ³		2.4	
	Loose Bulk Density, kg/m³		300 min.	350
	Humidity, %		0.5 max.	0.3
Properties	Particle Size Distribution, μm:			
	Laser diffraction (Malvern Mastersizer)	D ₁₀ D ₅₀ D ₉₇	0.8-1.3 3.0-4.0 14-19	
	Sieve residue 45µm, %		0.1 max.	
	Specific Surface Area (BET)***, m²	²/g	9-11	
	Surface treatment by stearic acid,	%	1 max.	
	Whiteness, CIE method		86 min.	88.5
	Tint, CIE method		0.5 max.	0.1
	Product appearance		White powder	
	** reference value for brucite min *** measured on request	eral		
Storage	The shelf life is 12 months from the time of delivery, when stored in dry place and while maintaining the tightness of packing. Opened bags should be resealed immediately			
Packing	Polypropylene bags with polyethylene liner, big bags			
Safety	Refers to low-hazard substances; fire- and explosion-proof, non-toxic			

Transported by all modes of transport in accordance with the rules of transportation

of goods that operate in this mode of transport

Transportation