Eigenmann & Veronelli S.p.A.

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POLYPLASTOL BC/1

POLYPLASTOL BC/1 is based on a blend of select fatty acid calcium soaps.

GENERAL CHARACTERISTICS

Appearance:	Dark brown pastille
Melting point:	100 - 110 °C
Specific gravity:	0,97
Packaging:	PE bags – 25 kg; 1 pallet = 40 bags = 1000 kg net weight

APPLICATIONS

POLYPLASTOL BC/1 is used in the production of polyolefinic compounds with high level of hydrated fillers. For this reason, it is employed largely in halogen-free flame-retardant compounds for cable applications.

POLYPLASTOL BC/1 acts as processing aids during the compounds production and extrusion, reducing the internal viscosity of melted compounds and the adhesion to metallic surfaces.

The dosage of POLYPLASTOL BC/1 is 2-5 phr (0.5-2% in weight on the total formulation) but we recommend all users to find the right amount needed in their compounds.

On the next page are shown results in two different formulations EVA and Engage based polymers.

STORAGE

We suggest to keep the product in a ventilated area.

SAFETY

We recommend to read the MSDS of the product before handling this product.

The product is not classified as dangerous in the meaning of European transport regulation.

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FORMULATION # 1: EVA + fillers

Escorene UL00119	85 phr	Exxon
Compoline CO/UL MH	15 phr	AUSERPOLIMERI
Martinal 104LE	120 phr	Martinswerk
Hydrofy G 1.5	40 phr	NUOVA SIMA
POLYPLASTOL BC/1	0 / 2.5 / 5 phr	**EIGENMANN & VERONELLI**
Irganox B225	1 phr	Ciba

TEST RESULTS

				After ageing (100 °C–168 h)	
POLY BC/1 phr	MFI (21.6@190 °C)	Tensile Strength	Elongation at break	Tensile Strength	Elongation at break
0	5.8	13.2 MPa	183%	14.1 (+7%)	150 (-17%)
2.5	7.8	11.8 MPa	185%	-	-
5	9.7	10.8 MPa	187%	10.7 (-1%)	178 (-5%)

FORMULATION # 2: PP/mULDPE + Magnesium Hydroxide

Engage 8180	55 phr	DuPont-Dow Elastomers
Hostalen PP 861	30 phr	Basell Polyolefins
Compoline CO/UL MH	15 phr	AUSERPOLIMERI
Hydrofy G 1.5	200 phr	NUOVA SIMA
POLYPLASTOL BC/1	0 / 3 / 6 phr	**EIGENMANN & VERONELLI**
Irganox B225	2 phr	Ciba

TEST RESULTS

				After ageing (100 °C–168 h)	
POLY BC/1 phr	MFI (21.6@190 °C)	Tensile Strength	Elongation at break	Tensile Strength	Elongation at break
0	0.8	16.1 MPa	190%	18.3 (+14%)	95 (-50%)
3	2.5	13.3 MPa	245%	-	-
6	3.8	11.3 MPa	295%	13,2 (+17%)	225 (-24%)

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