

MBFP NANO-CAL

EVA material filled with nano CaCO₃—greener choice for EVA foaming

Grade : MBFP NC-E0140

Applications

For ordinary EVA foam products such as foam sheets, mats and shoe materials.

Characteristics

1. Replacing partial or all EVA raw material in formula for direct foaming process. Good for environmental protection by reducing the plastics content of final products.
2. Containing highly dispersive and reinforcing nano calcium carbonate, maintaining good mechanical properties even at high loading.
3. Generating less heat, oil dripping and smoke during burning. No damage to the incinerator.
4. Cutting down overall formulation cost.

Basic properties

Properties	Test method	Unit	Typical value
Base material	.....	.....	EVA
Nano CaCO ₃ content	.....	%	38
Density	ASTM D1505	g/cm ³	1.23
(MI)@2.16kg/190°C	ASTM D1238	g/10mins	1.0
Hardness	ASTM D2204	Shore A	93
Moisture	IR moisture meter	%	< 0.2
Shape	.....	Granule	2~3mm ^φ

Foaming process example

Formula	MBFP NC-E0140	60%	ZnO	1.2phr
	TAISOX® EVA-7360M	30%	Cross-linking agent DCP	0.65phr
	TAFMER DF-810	10%	Blowing agent AA-100	3.1phr

Properties	Test method	Unit	Typical value
Secondary compression ratio	.....	%	150
Density	ASTM D3574	g/cm ³	0.21
Hardness	ASTM D2240	Shore C	56
Tensile strength at break	ASTM D638	kg/cm ²	28.2
Elongation at break	ASTM D638	%	247
Tearing strength	ASTM D624	Kg/cm ²	10.6
Split tear strength	ASTM D3574	Kg/cm ²	3
Compression set	ASTM D395	%	46
Shrinkage	.....	%	2 ↓

Data shown are average values and should not be examined for specifications.

Packing : 20 kg/bag

Note : Use immediately once open to atmosphere. Keep away from moisture