

PENN ELCOM DATASHEET

EVA Foam

Material Name: Black EVA Foam

Ingredients (Chinese Name)	Composition Ratio	Chemical Substance Identification Code
Polyethylene	50-70	9002-88-4
Ethylene-vinyl acetate copolymer	1-5	24937-78-8
Foaming agent	2-5	123-77-3
CaCO ₃	20-30	471-34-1
DCP	0.5-1.5	57913-37-8
EnO	0.5-2	1314-13-2
Zinc stearate	0.1-1	557-05-1
Black Masterbatch	10-15	-

Material form and odor:

Plate-like solid, slight plastic smell.

Physical properties:

Water absorption: 0.005 or less g/cm²

Apparent density of each hardness product (Test method: GB/T 6343-2009)

Hardness	Apparent Density
25°	77.6 kg/m ³
38°	75.2 kg/m ³
45°	115.3 kg/m ³
60°	164.6 kg/m ³
70°	207.0 kg/m ³

Tensile test of each hardness product (Test method: GB/T 10654-2001):

Hardness	Tensile Strength	Elongation at break
25°	1.00Mpa	130%
38°	1.56Mpa	120%
45°	1.66Mpa	120%
60°	2.13Mpa	130%
70°	3.08Mpa	160%

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Compression permanent deformation test of each hardness product (Test method: GB/T 10653-2001):

Hardness	Test Methods	Test Conditions (temperature, compression, time)	Result
25°	GB/T 10653-2001 Method B	23 ±2°C, 50%, 72 H	35%
38°	GB/T 10653-2001 Method B	23 ±2°C, 50%, 72 H	32%
45°	GB/T 10653-2001 Method B	23 ±2°C, 50%, 72 H	26%
60°	GB/T 10653-2001 Method B	23 ±2°C, 50%, 72 H	16%
70°	GB/T 10653-2001 Method B	23 ±2°C, 50%, 72 H	11%
38°	GB/T 10653-2001 Method 0	85°C, 50%, 72 H	51%
60°	GB/T 10653-2001 Method 0	85°C, 50%, 72 H	48%

Resistant to benzene, acid and alkali

Temperature resistance: starts to soften at 65° and starts to melt at 90°

If used at room temperature, it will begin to age after 5 years

If the temperature is above 40°C for a long time, aging will begin in 3 years

Note: Aging means that it will turn into powder after oxidation

Health and danger overview:

Health hazard: No hazard under normal operation and use

Stability: Extremely stable at room temperature

Possible hazardous reactions under special conditions: No hazardous decomposition products: None

Hazard Category: Flammable

Route of entry: None

Environmental Hazards: None

Health effects: None

Fire and explosion hazard: This product is flammable

First aid measures:

Skin contact: Immediately cool the melted skin with plenty of water and follow the clinical treatment for burns.

Eye contact: Lift the eyelids and rinse with running water or saline. Seek medical attention.

Inhalation: Not necessary.

Ingestion: Induce vomiting and seek medical attention.

Firefighting measures:

Hazard characteristics: Flammable, keep away from fireworks.

Fire extinguishing method: Firefighters must wear gas masks and full-body fire suits and extinguish fires in the upwind direction.

Fire extinguishing agent: Water, foam, dry powder, carbon dioxide, sand.

Handling precautions:

Keep away from fire and heat sources

Avoid contact with oxidants and chemicals

Storage precautions:

Store in a cool, naturally ventilated warehouse for 10 years

Keep away from fire and heat sources

Store separately from oxidants and chemicals

Do not mix