

EPDM Rubber

EPDM rubber is a synthetic elastomer which is formally known as Ethylene Propylene Diene Monomer. EPDM products are offered in a few of variations. Their common feature though is that they are generally very good at resisting the degrading effects of weathering, ozone, and UV ray exposure. EPDM rubber is highly recommended as a type of outdoor rubber for applications where there is significant environmental exposure.

EPDM sheet is used for construction and automotive applications where high temperature (up to 150°C) and excellent aging characteristics are required. EPDM sheet also provides limited resistance to fuels, oils and alcohols.

Properties:

- Low electrical conductivity.
- Flexible material.
- Good Tensile Strength.
- Excellent color stability
- Excellent compression strength



Applications

A common use is in vehicles: door seals, window seals, trunk seals, and sometimes hood seals. Frequently, these seals are the source of noise due to movement of the door against the car body and the resulting friction between the EPDM rubber and the mating surface (painted sheet metal or glass).

EPDM rubber is used in seals: (for example, it is used in cold-room doors since it is an insulator, as well as in the face seals of industrial respirators in automotive paint spray environments. EPDM is also used in glass-run channels, radiators, garden, and appliance hose, tubing, pond liners, washers, belts, electrical insulation, vibrators, O-rings, solar panel heat collectors, and speaker cone surrounds.

It is also used as a medium for water resistance in electrical cable-jointing, roofing membranes (since it does not pollute the run-off rainwater, which is of vital importance for rainwater harvesting), geomembranes, rubber mechanical goods, plastic impact modification, thermoplastic, vulcanizates, and many other applications.

Specification

Standard Color :	Black		
Work Temperature:	-40 °C -- 130 °C		
Specification :	Test Method	Unit	Test Result
Specific Gravity	ASTM D792	g/cm ³	1.4+-0.1
Hardness	ASTM D2240	Shore A	70+-5
100% Modulus	ASTM D-412	kgf/cm ²	73
Tensile Strength	JIS K6301	kgf/cm ²	82
Elongation	JIS K6301	%	250
Tear Strength	ASTM D-412	kgf/cm	50
Abrasion Resistance, 6 Lb/3300 RPM	ASTM D-1042	C. C.	D. 2.06