# Datenblatt | Data sheet

# Rubber ball EPDM

The balls made of terpolymer EPDM have good resistance to heat, aging, atmospheric phenomena and UV rays, as well as good behavior at low temperatures. They are also available with peroxide crosslinking agent.

### **Field of application**

They are used in various industrial applications, almost always as a sealing element or valve ball. They are also used in environmental devices and applications exposed to weathering.

#### **Corrosion resistance**

EPDM rubber is resistant to water, steam, ozone, alkalis, alcohols, ketones, esters, glycols, salt solutions and substances with oxidizing effect, weak acids, detergents and many organic and inorganic bases. Unsuitable for contact with gasoline, diesel oil, greases, mineral oils and aliphatic, aromatic and chlorinated hydrocarbons.

#### Material

Technical name	Alternative Name	Abbreviation
Ethylene-propylene-diene monomer	Buna-EP	EPDM

## Physical / mechanical / thermal / electrical / magnetic characteristics

Characteristic	Symbol	Unit	Туре	Note	Value
Density	δ	g/cm <sup>3</sup>	Physical	Environmental temp.	1,20
Modulus of elasticity	E	MPa	Mechanical	-	8
Elongation at break	А	%	Mechanical	Environmental temp.	≤ 600
Compression set	-	%	Mechanical	Environmental temp.	35
Coefficient of friction	μ	-	Mechanical	Environmental temp.	0,50
Linear coefficient of thermal expansion	α	10 <sup>-6</sup> /°C	Thermal	(ΔT = 0 - 100°C)	165
Thermal conductivity	λ	W/(m*K)	Thermal	Environmental temp.	0,15
Electrical resistivity	ρ	Ω*mm²/m	Electrical	-	> 10 <sup>21</sup>
Relative magnetic permeability	μ	-	Magnetic	Diamagnetic	< -1

#### **Technical characteristics**

Characteristic	Туре	Unit	Туре	Unit	Value
Hardness	Mechanical	Shore A	75 - 90	-	-
Break load in traction	Mechanical	MPa	11 - 15	psi * 10 <sup>3</sup>	1,60 - 2,18
Operating temperature	Thermal	°C	-30 - 130	°F	-22 - 266

#### Available with

Diameter min/max (mm)	Diameter min/max (in)	Precision grade
1,000 - 152,400	3/64 - 6	III

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