

# E80Q

EPDM elastomer for food and dairy applications

## Description

E80Q is a peroxide-cured, Ethylene Propylene Terpolymer material formulated using only those ingredients determined by the US Food and Drug Administration (FDA). E80Q is suitable for use in food contact applications requiring FDA and 3A compliance.

E80Q provides excellent water and steam resistance and good compression set properties. The material's heat and chemical resistance is superior to that of sulphur-cured EPDM.

Available in any sized O-ring (fully moulded up to 2.5m/8ft internal diameter), gaskets and custom designed components.

## Key Attributes

- ▶ FDA compliant to CFR 21 § 177.2600 (a-d)
- ▶ 3A Sanitary Standard 18-03 Class 2 compliant
- ▶ Free from Animal Derived Ingredients (ADI)

## Typical Applications

Recommended for use in food and dairy applications.

- ▶ O-rings
- ▶ Gaskets
- ▶ Hygienic/sanitary couplings & pipe connectors
- ▶ Valves
- ▶ Pumps
- ▶ Metering equipment

## Other materials available

E70Q FDA, USP & 3A compliant EPDM grade (black)

V70H FDA, USP & 3A compliant FKM grade (black)

E73D KTW, DVGW, ACS, NSF, WRAS-compliant EPDM grade (black)



## Typical Material Properties

Property	ASTM	ISO	
Material Type	EPDM	EPDM	Terpolymer
Colour			Black
Hardness (typical value):			
°IRHD	D1415	ISO48	78
Shore A	D2240		77
Tensile Strength (MPa)	D412	ISO37	9.0
Elongation at break (%)	D412	ISO37	220
Compression Set:			
22 hrs @ 125°C (257°F)	D395	ISO815	21%
Minimum Operating Temperature			-40°C (-40°F)
Maximum Operating Temperature			+150°C (+302°F)
Low temperature resistance:			
Non-brittle for 3 mins @	D2137	ISO R812	-40°C (-40°F)

**SPECIAL NOTE:** This information is to the best of our knowledge accurate and reliable. However, PPE Ltd makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use, especially in applications where their failure may result in injury and/or damage. It should also be noted that all elastomeric parts have a finite life, therefore a regular program of inspection and replacement is strongly recommended. The material properties above should not be used for specification purposes.



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www.prepol.com | Europe: +44 (0) 1254 295400 | USA: +1 408 441 2043 | Asia: +81 804 354 2781 | Email: prepol.sales@idexcorp.com