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Datasheet

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COG-No.	EP 390
Basic elastomere	Ethylene-propylene rubber (EPM)
Colour	black
Case hardening temperature	from -40 °C to + 150 °C
License / Certificate	according to FDA regulations § 177.2600

Typical properties

Properties	Unit	Value	Testing methods
Hardness	Shore A	80 ± 5	DIN 53 505
	°IRHD, CM	82 +3/-8	DIN ISO 48
Tensile strength	MPa	12,3	DIN 53 504
Ultimate elongation	%	125	DIN 53 504
Tear strength	N/mm	1,9	DIN 53 507 B
Compression set (22 h / 100° C) (22 h / 175° C)	%	< 15	DIN ISO 815
	%	< 20	DIN ISO 815
TR-10	° C	-38	ASTM D 1329

Change in properties

after ageing in	Change in Hardness Shore A DIN 53 505	Change in tensile strength % DIN 53 504	Change in ultimate elongation % DIN 53 504
Air (94 h / 175° C), DIN 50011, Part 2	+ 5	-69,9	-79,2

Ethylene-propylene rubber (EPM)

Due to peroxide crosslinking, EPM seals have an outstanding resistance to hot water and steam, as well a very good resistance to atmospheric conditions such as UV radiation, the effects of ozone, and humidity. They are also highly resistant to acids and alkalis.

EPM is not resistant against aliphatic and aromatic hydrocarbons and mineral oil products.

The mentioned values are average values and result from a limited number of laboratory tests. These tests were performed on standard test specimens and may therefore vary significantly from the values that were determined by means of tests performed on finished parts. On the basis of his own tests, the purchaser must ensure that the product is suitable for the intended application purpose.

Our recommendations are provided according to the best of our knowledge. However, they are not binding and exclude any form of liability for any kind of damage.