

GASKET MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: C210

POLYMER TYPE: PEROXIDE NITRILE

DESCRIPTION:

A low/medium shrinkage nitrile rubber designed for improved temperature resistance over standard nitrile. This compound will resist the same range of oils and aqueous chemicals as standard nitrile and has been formulated to comply with FDA (177-2600e) for rubber articles in contact with foods .

TEMPERATURE LIMITS

MAX. CONTINUOUS TEMPERATURE: +145°C
INTERMITTENT MAX. TEMPERATURE: +150°C
MIN. CONTINUOUS TEMPERATURE: -20°C

THESE TEMPERATURES ARE FOR AQUEOUS MEDIA. HIGHER TEMPERATURES CAN BE TOLERATED IN HYDROCARBON MEDIA.

TYPICAL PHYSICAL PROPERTIES

Typical values are achieved during testing to standard ISO methods under standard laboratory conditions, the results reflect those achieved consistently by the compound.

PROPERTY	TYPICAL VALUES & TOLERANCE	TEST STANDARD
HARDNESS (IRHD)	77-82 IRHD (Typical 81IRHD)	ISO 48
TENSILE STRENGTH (MPa)	18.7 MPa	ISO 37
MODULUS @ 100% (MPa)	9.7 MPa	ISO 37
ELONGATION @ BREAK (%)	200%	ISO 37
TEAR STRENGTH (N/mm)	45 N/mm	ISO 34
SPECIFIC GRAVITY	1.27	ISO 2781
MOULDING SHRINKAGE	LOW/MEDIUM	
24 HRS COMPRESSION SET @ 150°C UNDER 30% STRAIN	10.6%	TRP CONTROL TEST

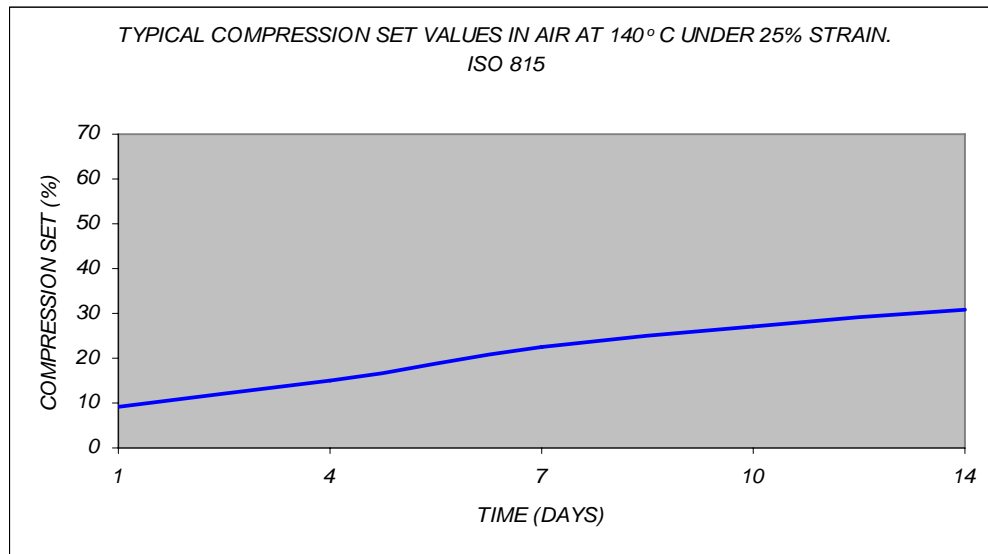
Note: Compression set result is from TRP standard profile and may not reflect actual product results (standard profile drawing available on request).

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AIR AGEING

PROPERTY (AFTER 168 HRS AT 125°C)	TYPICAL VALUES	TEST STANDARD
HARDNESS CHANGE (IRHD)	+9 IRHD	ISO 188
TENSILE CHANGE (%)	-22%	ISO 188
ELONGATION CHANGE (%)	-60%	ISO 188

LONG TERM COMPRESSION SET



ABSORPTION TESTS

PROPERTY	TYPICAL VALUES	TEST STANDARD
VOLUME CHANGE IN ASTM OIL 1, 168 HRS AT 100°C	+2.2%	ISO 1817
VOLUME CHANGE IN IRM 903 OIL, 168 HRS AT 100°C	+13.0%	ISO 1817

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