TRP Sealing Systems Ltd

GASKET MATERIAL TEST DATA

TRP COMPOUND REFERENCE Nº: E250

POLYMER TYPE: EPDM FOR HIGH TEMPERATURE STEAM

DESCRIPTION:
E250 is an industrial grade of EPDM designed to have very good resistance to high temperature steam in plate heat exchanger gasket applications. E250 combines mechanical robustness at high temperature with excellent long term set resistance in air and steam or water. It is also suitable for a wide range of chemicals but not hydrocarbon oils and solvents.

TEMPERATURE LIMITS

MAX. CONTINUOUS TEMPERATURE:	**+175°C**
INTERMITTENT MAX. TEMPERATURE:	**+190°C**
MIN. CONTINUOUS TEMPERATURE:	**-35°C**

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	TEST STANDARD
HARDNESS (IRHD)	81 IRHD	ISO 48
TENSILE STRENGTH (MPa)	13.9 MPa	ISO 37
MODULUS @ 100% (MPa)	8.5 MPa	ISO 37
ELONGATION @ BREAK (%)	181%	ISO 37
TEAR STRENGTH (N/mm)	31 N/mm	ISO 34
SPECIFIC GRAVITY	1.17	
MOULDING SHRINKAGE	STANDARD	
24 HRS COMPRESSION SET @ 150°C UNDER 25% STRAIN	9.4%	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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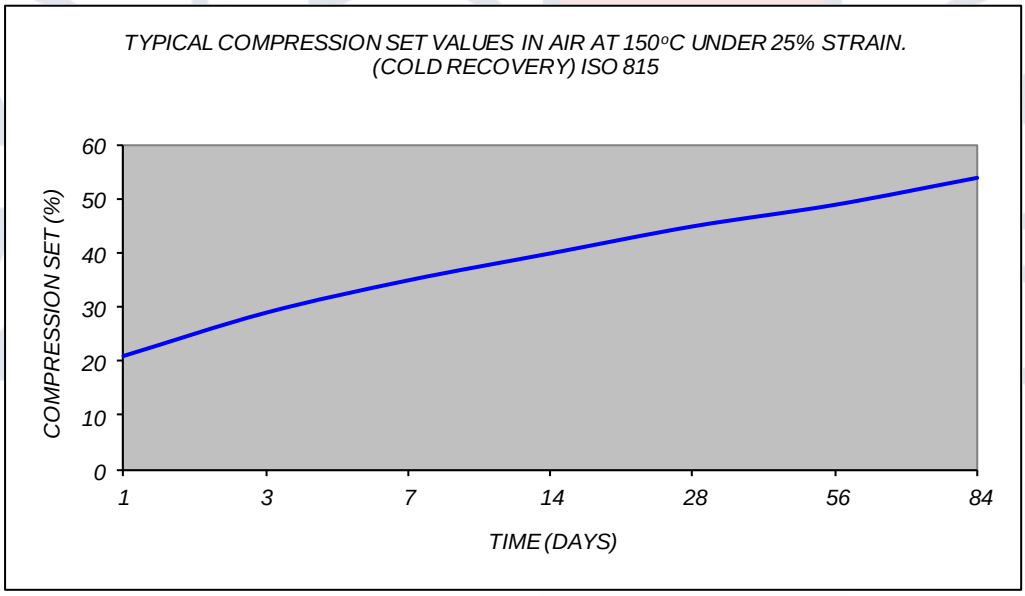
AIR AGEING

PROPERTY (AFTER 336 HRS AT 150°C)	TYPICAL VALUES	TEST STANDARD
HARDNESS CHANGE (IRHD)	+4 IRHD	ISO 188
TENSILE CHANGE (%)	-6%	ISO 188
ELONGATION CHANGE (%)	-26%	ISO 188

LONG TERM COMPRESSION SET



ABSORPTION TESTS

PROPERTY	TYPICAL VALUES	TEST STANDARD
DISTILLED WATER, 168 HRS AT 100°C, VOLUME CHANGE	+0.9%	ISO 1817
1% NITRIC ACID, 336 HRS AT 100°C, VOLUME CHANGE	+0.8%	ISO 1817