

GASKET MATERIAL TEST DATA

TRP COMPOUND REFERENCE N°: E146

POLYMER TYPE: FDA EPDM PEROXIDE CURED

DESCRIPTION:

A peroxide cured EPDM formulated to meet the requirements of FDA (177-2600e) for plate heat exchanger gaskets. E146 has good temperature resistance, which is typical of a peroxide cured EPDM. E146 has the added advantage of being designed to be moulded in standard shrinkage tooling.

TEMPERATURE LIMITS

MAX. CONTINUOUS TEMPERATURE: +150°C
INTERMITTENT MAX. TEMPERATURE: +160°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 & TOLERANCE	TEST STANDARD
HARDNESS (IRHD)	77-82 IRHD (Typical 81IRHD)	ISO 48
TENSILE STRENGTH (MPa)	15 MPa	ISO 37
MODULUS @ 100% (MPa)	8.5 MPa	
ELONGATION @ BREAK (%)	160%	ISO 37
TEAR STRENGTH (N/mm)	26N/mm	ISO 34
MOULDING SHRINKAGE	STANDARD	
24 HRS COMPRESSION SET @ 150°C UNDER 25% STRAIN	6.8%	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).

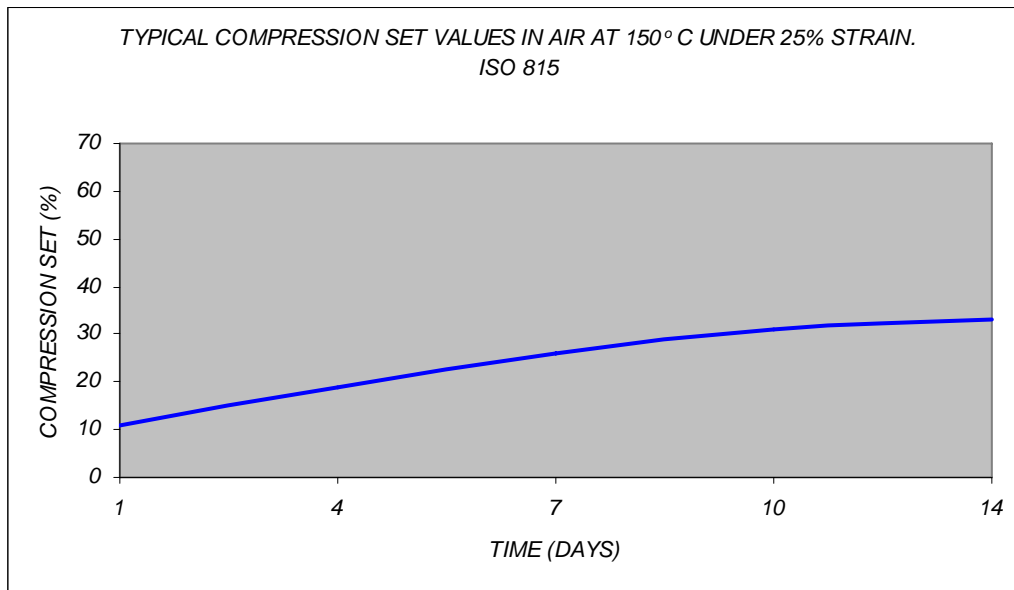
DATA SHEET: GM 9	PAGE: 1 OF 2	ISSUE DATE: 01.04.08	ISSUE N°: 8	ISSUE BY: WLF
----------------------------	------------------------	--------------------------------	-----------------------	-------------------------

GASKET MATERIAL TEST DATA

AIR AGEING

PROPERTY (AFTER 336 HRS AT 150°C)	TYPICAL VALUES	TEST STANDARD
HARDNESS CHANGE (IRHD)	+4 IRHD	ISO 188
TENSILE CHANGE (%)	-37%	ISO 188
ELONGATION CHANGE (%)	-44%	ISO 188

LONG TERM COMPRESSION SET



ABSORPTION TESTS

PROPERTY	TYPICAL VALUES	TEST STANDARD
DISTILLED WATER, 168 HRS AT 100°C, VOLUME CHANGE	+2%	ISO 1817

DATA SHEET: GM 9	PAGE: 2 OF 2	ISSUE DATE: 01.04.08	ISSUE N°: 8	ISSUE BY: WLF
----------------------------	------------------------	--------------------------------	-----------------------	-------------------------

The information contained in this data sheet is provided by TRP Sealing Systems Ltd in good faith and believed to be accurate. It is however intended for general guidance only and customers must therefore carry out their own tests and evaluations to ensure that the products are fit and suitable for the purpose for which they are intended. All products supplied by TRP Sealing Systems Ltd are subject to the companies standard terms and conditions of sale.