Compound GPlast 330B Ultra High Temperature (UL)
POLYMER TYPE: Perfluoroelastomer FFKM80 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	75
TENSILE STRENGTH	ISO 37	MPa	18.5
MODULUS @ 100%	ISO 37	MPa	13.7
ELONGATION @ BREAK	ISO 37	%	127
TEAR STRENGTH	ISO 34	N/mm	19.6
TR10	ISO 2921	°C	-5
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.96
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 200°C	ISO 815	%	9.2

Description

This Black material has the highest thermal rate of the GPlast grades up to +330ºC (+626ºF) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Developed for its performance at constant elevated temperatures. This material is not suitable for high temperature water or steam applications. Do not use any GPlast grade with molten alkali metals.

Service Temperatures: -20°C (-4°F) to +330°C (+626°F) continuous.

Chemical Resistance

1. Suitable, little or no effect. 2. Minor to moderate effect, not maximum resistance. 3. Moderate to severe effect – may be useful in some limited applications. 4. Unsuitable and not recommended – severe effect.

Chemical Group	Rating
Aromatics / Aliphatic Oils	1
Acids	2
Alkalis	1
Alcohols	1
Aldehydes	1
Amines	1
Ether	1
Ethylene	1
Esters	1
Ketones	1
Propylene Oxide	1
Steam/Hot Water	4
Strong Oxidisers	1
Amines >70°C	2

More detailed information available on request.

Since development and improvement of compounds is a continuing process, Gapi reserves the right to modify their composition and characteristics.
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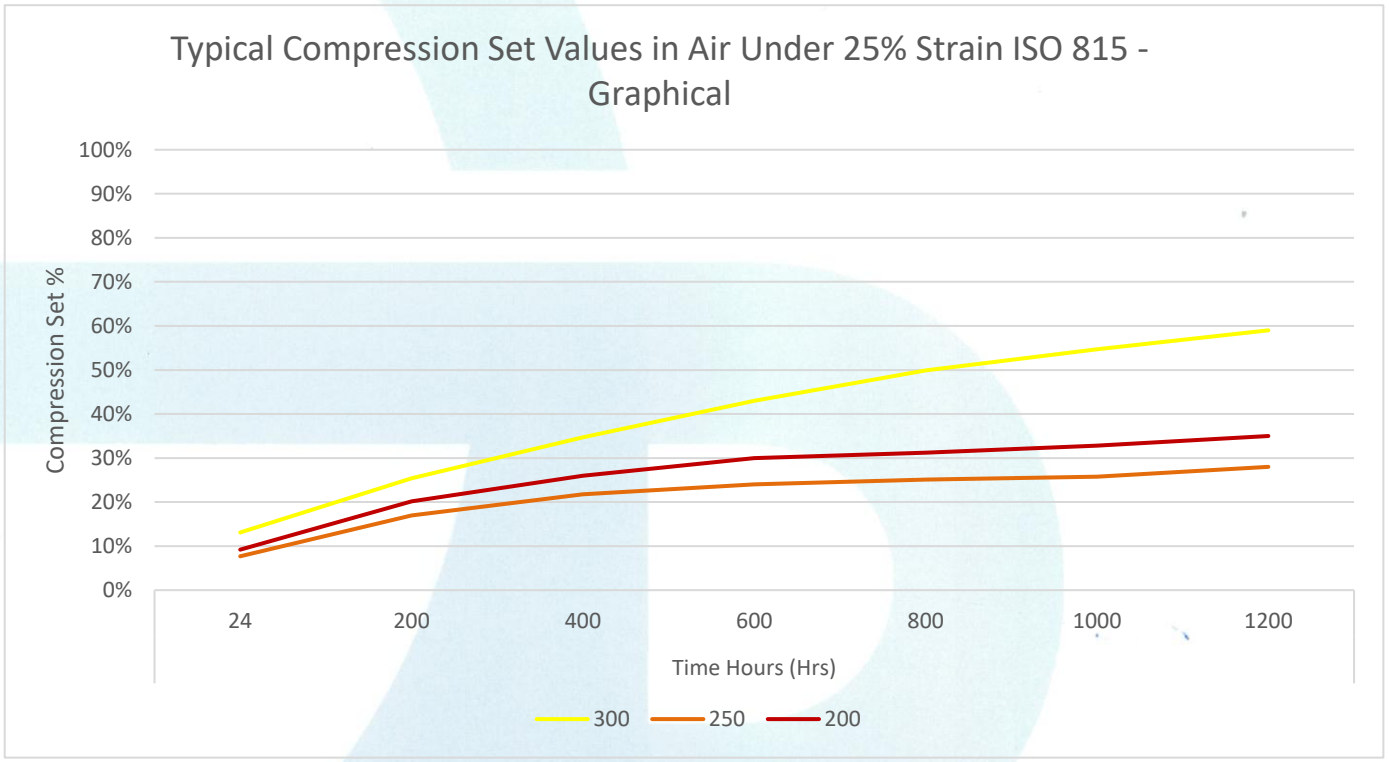
Compression Sets

Typical Compression Set Values in Air Under 25% Strain ISO 815 - Tabulated

Compression Set Conditions:	Test Standard	Units	Typical Values
24hrs @ 300°C	ISO 815	%	13.1
24hrs @ 250°C	ISO 815	%	7.7
24hrs @ 200°C	ISO 815	%	9.2
24hrs @ 300°C	ISO 815	%	16.7
24hrs @ 250°C	ISO 815	%	10.8
24hrs @ 200°C	ISO 815	%	13.9

Long Term Compression Set Values in Air Under 25% Strain ISO 815 - Tabulated

Compression Set Conditions:	Test Standard	Units	Typical Values
24hrs @ 250°C	ISO 815	%	34.1
24hrs @ 300°C	ISO 815	%	37.7



Note: The compression set at 200°C is slightly higher than 250°C because the higher temperature aids its recovery. Over longer time periods it is expected that the 200°C compression set will outlast the 250°C compression set.

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