

Compound **GPlast™** 300B High Temperature Hot Water & Steam (UK)

POLYMER TYPE: Perfluoroelastomer FFKM80 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	78
TENSILE STRENGTH	ISO 37	MPa	21.2
MODULUS @ 100%	ISO 37	MPa	12.9
ELONGATION @ BREAK	ISO 37	%	165
TEAR STRENGTH	ISO 34	N/mm	25.1
TR10	ISO 2921	°C	-3
SPECIFIC GRAVITY	ISO 2781	g/cm3	2.00
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 204°C	ISO 815	%	15.3

Description

This Black material provides excellent temperature resistance up to +300°C (+572°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Developed for high temperature water and steam applications. Along with all our GPlast™ range, this grade is suitable for use in a wide range of applications where other polymers are not suitable. Do not use any GPlast™ grade with molten alkali metals. Service Temperatures +300°C (+572°F) to -18°C (+5°F).

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

Aromatics / Aliphatic Oils
Acids
Alkalies
Alcohols
Aldehydes
Amines
Amines >70°C
Ethers
Ethylene
Esters
Ketones
Propylene Oxide
Steam/Hot Water
Strong Oxidisers

Rating

1
2
1
1
1
1
2
1
1
1
1
1
1
1
1

More detailed information available on request.