

Compound GPlast™ 316AED High Temperature (UE)
POLYMER TYPE: Perfluoroelastomer FFKM90 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	88
TENSILE STRENGTH	ISO 37	MPa	18.9
MODULUS @ 100%	ISO 37	MPa	N/A
ELONGATION @ BREAK	ISO 37	%	115
TEAR STRENGTH	ISO 34	N/mm	25.5
TR10	ISO 2921	°C	-1
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.99
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 204°C	ISO 815	%	23.8

Description

This Black rapid gas decompression resistant (RGD) material provides excellent temperature resistance up to +316°C (+600°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Developed for optimum resistance through thermal cycling. This material is not suitable for high temperature water or 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 +316°C (+600°F) to -16°C (+3°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	Rating
Aromatics / Aliphatic Oils	1
Acids	2
Alkalies	1
Alcohols	1
Aldehydes	1
Amines	1
Amines >70°C	2
Ethers	1
Ethylene Oxide	1
Esters	1
Ketones	1
Propylene Oxide	1
Steam/Hot Water	4
Strong Oxidisers	1

More detailed information available on request.