Compound GPlast™ LT-40 Ultra Low Temperature (UN)

POLYMER TYPE: Perfluoroelastomer FFKM75 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	75
TENSILE STRENGTH	ISO 37	MPa	9.67
MODULUS @ 100%	ISO 37	MPa	3.11
ELONGATION @ BREAK	ISO 37	%	280
TEAR STRENGTH	ISO 34	N/mm	12.4
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.99
COMPRESSION SET VALUE IN AIR 25% STRAIN – 24HRS @ 204°C	ISO 815	%	19.9
LOW TEMPERATURE TR10	ISO 2921	°C	-30

Description

This Black low temperature material provides an excellent temperature range from -45°C (-49°F) up to +240ºC (+464ºF) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers.
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.

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	1
Alkalis	1
Alcohols	1
Aldehydes	1
Amines	1
Ethers	1
Ethylene Oxide	1
Esters	1
Ketones	1
Propylene Oxide	1
Steam/Hot Water	1
Strong Oxidisers	1

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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