Compound GPlast™ LT-45 AED (T168) Ultra Low Temperature (UO)
POLYMER TYPE: Perfluoroelastomer FFKM90 (+/-5°)

Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	93
TENSILE STRENGTH	ISO 37	MPa	14.2
MODULUS @ 100%	ISO 37	MPa	10.9
ELONGATION @ BREAK	ISO 37	%	129
TEAR STRENGTH	ISO 34	N/mm	26.3
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.90
COMPRESSION SET IN AIR @ 25% STRAIN 24HRS @ 204°C	ISO 815 –Type A	%	18.9

Description

This black rapid gas decompression resistant (RGD) material provides outstanding low temperature properties, to provide an extended temperature range from -45°C (-49°F) up to +240°C (+464°F) 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	Chemical Group	Rating
Aromatics / Aliphatic Oils	1	Ethylene	1
Acids	1	Esters	1
Alkalis	1	Ketones	1
Alcohols	1	Propylene Oxide	1
Aldehydes	1	Steam/Hot Water	1
Amines	1	Strong Oxidisers	1
Ethers	1		

More detailed information available on request.

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