

## Polymax P045B7LT

FFKM / Perfluoroelastomer

FFKM combines properties from PTFE and FKM to make a fully fluorinated polymer. FFKM O-rings can withstand high temperatures, corrosive chemicals and are used in some of the most critical applications. FFKM is a highly durable material that provides a long service life in tough environments. There are many variations of FFKM compound O-rings, with tradenames such as Kalrez®, Chemraz®, Isolast® and Simraz®. Non-standard compounds are available to perform efficiently in designated applications. This generally makes FFKM the most expensive O-ring material.

**Colour: Black**

**Operating temperature range: -45°C to 240°C**

Physical Property	Test Method	Units	Typical Values
Hardness	ISO 48	IRHD	75
Tensile Strength	ISO 37	Mpa	9.67
Elongation	ISO 37	%	280
Modulus at 100%	ISO 37	Mpa	3.11
Specific Gravity	ISO 2781	g/cm <sup>3</sup>	1.99
Compression Set 24h / 204°C	ISO 815	%	19.9
Tear Resistance	ISO 34	N/mm	12.4
Low Temperature (TR10)	ISO 2921	°C	-30

Chemical Group	Rating	Chemical Group	Rating
Aromatics / Aliphatic Oils	1	Ethylene Oxide	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		

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.

Although the technical details and recommendations made correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use Polymax products must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. All sales subject to our standard terms [www.polymax.co.uk/sales-terms](http://www.polymax.co.uk/sales-terms)