

# Nimax Seals

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**Compound** : Perfluoroelastomer (FFKM) NX505

**Color** : Black

**Description** : This Black material provides excellent temperature resistance up to +260°C (+500°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. **Along with all Nimax range, this grade is suitable for use in a wide range of applications where other polymers are not suitable. Do not use any Nimax grade with molten alkali metals. Service Temperatures +260°C (+500°F) to -15°C (+5°F).**

Property	Test Standard	U.m.	Measured Value
Colour			Black
Hardness	ISO 48	°IRHD	77
Specific Gravity	ISO 2781	gr cm <sup>3</sup>	2.03
Tensile Strength	ISO 37	MPa	16.4
Elongation at break	ISO 37	%	159
Tear Strength	ISO 34	N/mm	15.6
Modulus at 100%	ISO 37	MPa	10.4
Compression Set Value in Air, 25% Strain, 24 Hrs @ 204°C	ISO 815	%	24.4

## CHEMICAL RESISTANCE

Chemical Group	Rating
Aromatics / Aliphatic Oils	1
Acids	1
Alkalis	1
Alcohol's	1
Aldehydes	1
Amines	1
Ethers	1
Ethylene Oxide	1
Esters	1
Ketones	1
Propylene Oxide	1
Steam / Hot Water	1
Strong Oxidisers	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.