



FKM 70 Compound 514641

514641 is a specialist grade FKM co-polymer with a broad chemical resistance and good compression set values. The compound is specially developed for European and US food and dairy applications.

Characteristics

- Colour: Black
- Temp. resistance low: -20 °C
- Temp. resistance high: 200 °C
- Hardness tolerance: -5/+5

Industries

- Food & Beverage

Approval & Compliancy details

For Food & Beverage compliances, see Declaration of Compliance for typical application of the compound.

- 3-A Class I
- AfPS GS 2014:01 Cat.1
- EC1935/2004
- FDA 21CFR177.2600 a-d, e, f
- POP EU2019/1021
- REACH EU
- RoHS EU
- SR817.023.021
- TSCA 6(h)

Products

- Custom parts (moulded)
- O-rings (moulded)



Table: Physical Properties

Property	Value	Unit
Hardness Shore A - Slab	69.5	
Hardness - Test standard	ASTM D2240	
Compression set - O-ring 3.53mm	12	%
Compression set - Duration @ temperature	22 hours at 200°C	
Elongation at break	213	%
Elongation at break - Test standard	ASTM D412	
Tensile strength	15.35	MPa
Tensile strength - Test standard	ASTM D412	
100% Modulus	6.63	MPa
100% Modulus - Test standard	ASTM D412	

Table: Properties in Air

Property	Value	Unit
Properties in Air - Test standard	ASTM D573	
Properties in Air - Duration @ temp	168 hours at 100°C	
Properties in Air - Hardness Shore A change	0	Sh A
Properties in Air - Tensile strength change	-8	%
Properties in Air - Elongation change	-12	%

Table: Properties in Water

Property	Value	Unit
Properties in Water - Test standard	ASTM D471	
Properties in Water - Duration @ temp	22 hours at 70°C	
Properties in Water - Hardness Shore A change	-1	Sh A
Properties in Water - Tensile strength change	-20	%
Properties in Water - Elongation change	7	%
Properties in Water - Volume change	5	%