ELASTOMER FPM / FKM · NF L 17-260

Material 60C7

Fluorocarbon 75 Shore A

HARDNESS
75 Shore A
Measured IRHD: 80

TEMPERATURES
−20 / +200 °C

DENSITY
1.86 g/cm³

COMPRESSION SET
20.7 %
70 h at 200 °C

Properties

Family	**FKM (fluorocarbon)**
Standard	**NF L 17-260**
Nominal hardness	**75 Shore A**
Measured IRHD hardness	**80**
Continuous service temperature	**−20 to +200 °C**
Short-term temperature	**−20 to +260 °C**
Tensile strength	**18.4 MPa**
Elongation at break	**193 %**
Storage group	**V**
Colour	**Black**

Applications

- Oils, fuels and some diester lubricants.
- Static and dynamic O-ring sealing.
- Parts moulded to drawing in the same material.

Need an O-ring in 60C7?
Send the reference, drawing or dimensions with your quantities: reply within 48 hours.

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Properties measured at qualification

PROPERTY	UNIT	REQUIREMENT	MEASURED
Initial state			
Hardness IRHD	°	71 to 80	**80**
Hardness Shore A	points	75±5	**80**
Tensile strength	MPa	≥13	**18.4**
Elongation at break	%	≥175	**193**
Modulus at 100 %	MPa	—	**8.8**
Tear strength	kN/m	—	**28**
Density	Mg/m³	±0.03 between deliveries	**1.86**
Fuel immersion — 70 h at 23 °C in solvent B			
Change in IRHD hardness	°	-5 to 5	**-1**
Max. change in tensile strength	%	-15	**-7.6**
Max. change in elongation	%	-15	**2.6**
Change in volume	%	0 to 5	**2**
Lubricant immersion — 70 h at 200 °C in fluid 101			
Change in IRHD hardness	°	-15 to 5	**-12**
Max. change in tensile strength	%	-30	**-8.7**
Max. change in elongation	%	-20	**17.6**
Change in volume	%	0 to 20	**12.4**
Heat ageing — 70 h at 250 °C in air			
Change in IRHD hardness	°	0 to 10	**0**
Max. change in tensile strength	%	-35	**-3.3**
Max. change in elongation	%	-35	**-3.6**
Max. change in mass	%	-5	**-2.5**
Compression set			
After 70 h at 200 °C in air	%	≤35	**20.7**
Temperature retraction (TR 10)			
Initial state	°C	≤-15	**-16.8**