ELASTOMER NBR · NF L 17-120

Material 20A8

Nitrile 80 Shore A

HARDNESS	TEMPERATURES	DENSITY	COMPRESSION SET
80 Shore A	**−30 / +120 °C**	**1.29 g/cm³**	**29.3 %**
Measured IRHD: 79			70 h at 125 °C

Properties

Family	**NBR (nitrile)**
Standard	**NF L 17-120**
Nominal hardness	**80 Shore A**
Measured IRHD hardness	**79**
Continuous service temperature	**−30 to +120 °C**
Short-term temperature	**−30 to +140 °C**
Tensile strength	**18.3 MPa**
Elongation at break	**225 %**
Storage group	**II**
Colour	**Black**

Applications

- Mineral-based or synthetic-hydrocarbon hydraulic fluids.
- Static and dynamic O-ring sealing.
- Parts moulded to drawing in the same material.

Need an O-ring in 20A8?
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	°	73-82	**79**
Hardness Shore A	points	80±5	**80**
Tensile strength	MPa	≥14	**18.3**
Elongation at break	%	≥200	**225**
Modulus at 100 % elongation	MPa	—	**9.7**
Tear strength	kN/m	—	**35**
Density	Mg/m³	—	**1.29**
Immersion in hydraulic fluid AIR 3520 — 70 h at 125 °C			
Change in hardness	°	-10 to 0	**-6**
Max. change in tensile strength	%	-30	**2.7**
Max. change in elongation	%	-50	**-30.7**
Change in volume	%	0 to +8	**4.9**
Immersion in hydraulic fluid AIR 3520 — 48 h at 100 °C			
Change in volume	%	0 to +6	**4.6**
Heat ageing — 70 h at 125 °C in air			
Change in IRHD hardness	°	0 to +12	**6**
Max. change in tensile strength	%	-10	**7.7**
Max. change in elongation	%	-50	**-35.1**
Max. change in mass	%	-8	**-2.5**
Compression set			
After 70 h at 125 °C in air	%	≤40	**29.3**
After 22 h at 100 °C in air	%	≤20	**13.8**