

HNBR 70.15-06

Sealing Technology Technical Data Sheet

General compound description

Material name, short description	HNBR
Material name, based on technical standards	Hydrogenated acrylonitrile butadien rubber
Compound Code	HNBR 70.15-06
Old, but still valid compound code	AP_LTGPS_6025
Material description / intended use	Elastomer with good resistance against ozone, weathering, aging, hot water and various oils.
Crosslinking agent	peroxid
Color	green
Remarks	All measurement done on O-rings with CS 3.53 mm.

Mechanical properties

Density	1.21 g/cm ³ ± 0.02 ISO 2781
Hardness	70 IRHD +3/-7 ISO 48 CM
Tensile strength	14.1 N/mm ² ASTM D 1414 2015
Elongation at break	249 % ASTM D 1414 2015
Modulus 100 %	3.8 N/mm ² ASTM D 1414 2015
Compression set	58 % ISO 815-1 25% deformation, 336 h, 95 °C following method A afterwards 336 h, 130 °C following method A
	69 % ISO 815-1 25% deformation, 336 h, 95 °C following method A afterwards 336 h, 130 °C following method B
	25 % ISO 815-1 25% deformation, 24 h, 150 °C following method A
	50 % ISO 815-1 25% deformation, 22 h, 150 °C following method B

Thermal properties

Min. operating temperature	-45 °C
Max. operating temperature	+150 °C
TR 10 value	-30 °C ISO 2921

Approvals of this compound

ADI free

