



Material data sheet

PA 6 G natural

Polyamide

High pressure and extrusion strength; suitable for mineral oils and greases; good sliding properties; used for back-up elements and inner diameter from 250mm upwards. Resistant to: lubricants, fuels, solvents, natural oil and greases, water, ester and ketones

Properties	Condition	Standard	Unit			
Colour			natural			
Density/ specific gravity	23°C	DIN 53 479	kg/m ³	1130	g/cm ³	1,13
Hardness	23°C	ISO 868	Shore D	85+/-3	Shore D	85+/-3
Ball indentation hardness	23°C	DIN 53 456 H135/30	MPa	153	Psi	22200
Tensile strength	23°C	ASTM D 4745-79	MPa	80	Psi	11600
Elongation at break	23°C	ASTM D 4745-79	%	40	%	40
Compressive strength	23°C	DIN 53 455	MPa	110	Psi	16000
Thermal conductivity	23°C	DIN 52 612	$\frac{J \times 10^{-3}}{m \times h \times K}$	0,29	$\frac{J \times 10^{-3}}{m \times h \times K}$	0,29
Coefficient of thermal expansion	23°C – 200°C		K ⁻¹ x 10 ⁻⁵	8	K ⁻¹ x 10 ⁻⁵	8
Coefficient of friction	23°C		μ	0,4	μ	0,4
Minimum service temperature			°C	-40	°F	-40
Maximum service temperature			°C	110	°F	230
Young's modulus		DIN 53 457	MPa	3000	Psi	435000
* dynamic coefficient of friction, dry, Steel 16MnCR5: v=0,6m/s; p=0,05 MPa; t=5h						

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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