DATA SHEET NBR80Q

General properties

Stardand	ASTM
Indicative working temperature	-35°C/'+150°C
Color	BLACK
Chemical resistance	☐ Oil Free ☑ Phthalate Free ☑ Reach&RoHs2.0

Properties

	Method	Unit	Required value	value
Hardness	ASTM D 1415	IRHD	80+/-5	78
Tensile strength	ASTM D 412/C	N/mm2(Mpa)		16.47
Elongation at break	ASTM D 412/C	%		285
Tear strength	ASTM D 624/B	N/mm		51.94
Specific gravity	ASTM D 1817	g/cm3		1.272
Modulus at 100%	ASTM D 412	MPa		6.67
Low temperature test-TR10	ASTM D 1329	°C		
Low temperature test-Brittleness	ASTM D 746	°C		
Compression Set after deformation of 25%,168 hours at 100°C	ASTM D 395/B	%		32
Compression Set after deformation of 25%,72 hours at -20°C Release 30 min -20℃ % max	ASTM D 395/B	%		45

Ageing

Fluid	Time(h)	Temperature °C	Tensile %	Elongation %	Hardness Pts	Volume %	Weight %
Air	168	100	-1	-24	+6.8	-1.7	-1.3
Fluid Resistance ASTM D471 IRM902 Oil	168	80	+5	+1	-0.6	+1.5	+1.2
Fluid Resistance ASTM D471 N-Pentane	72	23	-14	-9	-9.4	+10.7	+4.8
N-Pentane Resistance 23℃ at 72 h → Dry Out 40℃at 168h					+2.7	-2.5	-1.9

Resistance to ozone, ASTM D1171, 50pphm × 40℃ × 24h 20% Elongation PASS

Resistance to ozone,23℃*72H*15%EB→50pphm*40℃*48hr*15%EB PASS

Approval

SPEC:
Date：08/11/2011
Edit date: 09/1/2022
Index:
Author:

SVHC = Substance of Very High Concern according to regulation REACH 1907/2006
These data are for information only.
They can be modified at any moment without notice.
Values indicated above are based on tests conducted on laboratory samples.
Values on finished parts can be different depending on shape, curing parameters etc