

## NBR 85 Shore A black

### Acryl Nitrile Butadiene Rubber

NBR has very good elastic properties and high extrusion strength, good turnability and low tool abrasion. Often used for O-rings, wipers and shaft rings.

#### Mechanical, physical and thermal properties

Material code: 0200H

Properties	Condition	Standard	Unit	Unit		
Color				black		
Hardness	23°C/3sec.	ISO 868	Shore A	85 ± 5		
	23°C/15sec.			83 ± 5		
Modulus 100%	23°C	DIN 53 504	MPa	≥11	psi	≥1595
Modulus 300%	23°C	DIN 53 504	MPa		psi	≥2465
Tensile strength	23°C	DIN 53 504	MPa	≥17	psi	≥6530
Elongation at break	23°C	DIN 53 504	%	≥150		
Tear strength	23°C	DIN ISO 34-1	kN/m	≥18	lbf/inch	≥102
Specific gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1280	g/cm <sup>3</sup>	1,28
Rebound Elasticity		DIN53 512	%	20		
Abrasion	23°C	DIN 53 516	mm <sup>3</sup>	100		
Compression set	*	ISO 815	%	≤5		
Compression set	**	ISO 815	%	≤6		
Minimum service temperature			°C	-30	°F	-22
Maximum service temperature			°C	110	°F	230
*24h 70°C 25% deflection		** 24h 100°C 25% deflection				

**Resistant to:** propane, butane, petrol, mineral oils, greases, vegetable and animal fats, HFA, HFB and HFC fluids, diluted acids, bases and salt solutions

**Not resistant to:** aromatic hydrocarbons, chlorinated hydrocarbons, polar solvents, conc. Acids, glycol-based brake fluid, ozone, weathering and aging