



Manufacturer of Seals for Hydraulic, Pneumatic and Rotary applications

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Material : Nitrile Butadiene Rubber

Spareage Code : ESD NT 5B-(Electrostatic Discharge)

Revision date : 01/02/2018

Physical properties	nominal	actual	units
Hardness BS ISO-48, 23 °C	80-85	84	Shore A-2
Tensile strength BS ISO-37, 23 °C	> 102	164	Kg/Cm ²
Elongation at break BS ISO-37, 23 °C	> 125	210	%
Compression set BS ISO-815, 100 °C, 22 h, 25 %	< 25	19.6	%
Air Ageing BS ISO-188, 100 °C, 70 h			
Hardness Change	<(+15)	+3	Points
Tensile Change	<(-20)	-7.5	%
Elongation Change	<(-40)	-15.8	%
Fluid Resistance, ASTM Oil-1 BS ISO-1817, 100 °C, 70 h			
Hardness Change	-5 to +15	+2	Points
Tensile Change	<(-25)	-8.8	%
Elongation Change	<(-45)	-16.6	%
Volume Change	-10 to +5	-4.10	%
Fluid Resistance, ASTM Oil-3 BS ISO-1817, 100 °C, 70 h			
Hardness Change	<(-15)	-2	Points
Tensile Change	<(-45)	-14.5	%
Elongation Change	<(-45)	-18.7	%
Volume Change	-10 to +35	+5.2	%
Specific Gravity BS ISO-1183, 23 °C	---	1.281	Gm/cc
Ash Content 800°C, 2 Hrs	---	4.35	%
Operating Temp	---	-30 to +100	°C
ESD DISSPUTIVE Measured Resistance	---	10 ⁶ -10 ⁹	Ω