

COMPOUND: C291 (ZZ)

POLYMER TYPE: ACRYLONITRILE BUTADIENE (NITRILE) 80 (+/-5°)

BS2751 BA80 Specification

Description

A black Acrylonitrile Butadiene compound formulated and tested to BS2751:2001 BA80. It offers excellent physical properties and compression set performance. It is suitable for a wide range of industrial applications particularly involving oils and aqueous solutions. Service Temperatures -25°C to +100°C.

	Units Method	Specification	Typical Values
Physical Properties			
HARDNESS (ISO 48)	°IRHD	76 to 85	76
TENSILE STRENGTH (ISO 37)	MPa	12.5 Min	17
ELONGATION @ BREAK (ISO 37)	%	150 Min	302
Heat Aged (7 days@70°C)			
ISO 188			
HARDNESS CHANGE	IRHD	-0 to +10	+2
TENSILE STRENGTH CHANGE	%	-10 Max	+5
ELONGATION @ BREAK CHANGE	%	-35 Max	-9
Compression Set (24 Hours @70°C)			
ISO 815-1			
COMPRESSION SET	%	20 Max	11
Fluid Resistance (22 Hours @40°C)			
ISO 1817 in Liquid B			
VOLUME CHANGE	%	-0 to +25 Max	+19
Low Temperature			
BS903 Part A13, ISO 1432 using Ethyl Alcohol/CO ₂ Cooling Medium @ -15°C	MPa	70 Max	12
Corrosion Test (166 Hours @70°C)			
ISO 6505 Method A, Carbon Steel & Copper	n/a	No pitting of metal, no signs of adhesion or liquid exudation of the vulcanisates.	Pass

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