

Technical Data Sheet - EP80/2 BLK

SUPERIOR EP80/2 BLK is based on an ethylene-propylene elastomer and uses a peroxide cure system. This cure system enables the compound to have excellent high temperature compression set resistance and heat ageing properties.

It is particularly useful in contact with hot water and steam as it offers very good water swell resistance. EP80/2 BLK has a temperature range of -50°C to +130°C (dependent upon seal environment).

EP80/2 BLK is approved by WRAS (UK), UBA (Germany), ACS (France), KIWA (Netherlands), DM174 (Italy) and NSF61 (USA) to the requirements for use with hot potable water.

Additionally, EP80/2 BLK has full DVGW Approval (Reg No DW-5253CL0459) with compliance to W534, W270 and EN681-1.

The ingredients used are listed in FDA 177.2600 (infant formula and breast milk excepted).

NB SUPERIOR EP compounds are NOT resistant to mineral oils and grease.

Colour - black

ORIGINAL PHYSICAL PROPERTIES	UNITS	STANDARD	SPECIFICATION
Hardness	IRHD	ISO 48	80 ± 5
Specific gravity		ISO 2781	1.16 ± 0.03
Tensile strength	MPa	ISO 37	10 min
Elongation at break	%	ISO 37	100 min
COMPRESSION SET		ISO 815	
70 HOURS AT 120°C	%		15 max
24 HOURS AT 150°C	%		20 max
AIR AGEING - 70 HOURS AT 120°C		ISO 188	
Hardness change	IRHD		+1 typical
Tensile strength change	%		+5 typical
Elongation at break change	%		+2 typical
WATER - 70 HOURS AT 100°C		ISO 1817	
Hardness change	IRHD		-2 typical
Volume change	%		+2 typical
LOW TEMPERATURE RETRACTION		ISO 2921	
TR10	°C		-45 typical

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