

MATERIAL DATA SHEET

FPM 90

FPM 90 ShA BLACK BISPHENOL

BLACK – BISPHENOL

TEMPERATURE RANGE :
-15 to 220°C

Properties	Testing Method	Units	Specifications	Values
ORIGINAL PROPERTIES:				
Specific gravity	ISO 2781	g/cm ³		1.853
Hardness Shore A	ISO 48-4	Point ShA	90±5	88
Tensile Strength	ISO 37	MPa	≥ 10	14.9
Elongation at break	ISO 37	%	≥ 100	135
Modulus 100%	ISO 37	MPa		10.9
B38 COMPRESSION SET METHOD B 22h@200°C:	ISO 815	%	≤ 20	13
A1-10 HEAT AGEING 70h@250°C:	ISO 188			
Hardness change		Variation ShA	±10 max	+1
Tensile Strength change		%	-25 max	-1
Elongation at break change		%	-25 max	+6
A1-11 HEAT AGEING 70h@275°C:	ISO 188			
Hardness change		Variation ShA	-5 to +10	+2
Tensile Strength change		%	-40 max	-16
Elongation at break change		%	-20 max	+6
EO78 IMMERSION IN ASTM REF 101 70h@200°C:	ASTM D471			
Hardness change		Variation ShA		-11
Tensile Strength change		%		-15
Elongation at break change		%		-9
Volume change		%		+11
EO88 IMMERSION IN SAE FLUID n°2 blend 7700 70h@200°C	ASTM D471			
Hardness change		Variation ShA	-15 to +5	-4
Tensile Strength change		%	-40 max	-10
Elongation at break change		%	-20 max	+7
Volume change		%	-25 max	+15



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Properties	Testing Method	Units	Specifications	Values
EF31 IMMERSION IN ASTM Ref. FUEL C 70h@23°C:	ASTM D471			
Hardness change		Variation ShA	±5	-4
Tensile Strength change		%	-25 max	-9
Elongation at break change		%	-20 max	+2
Volume change		%	0 to +10	+3

The above information corresponds to our current knowledge and is offered solely to provide possible suggestions for your own experimentations. It not intended to substitute any testing you may need to conduct to determine suitability of your products for your end use. Elastotech SA makes no warranties and assumes no liability in connection with any use of the above information.

