

Material Data Sheet

Material: N4180 black

cross linking: sulphur

Tested according to ASTM D2000 M 5 BG 814 A14 B14 EO14 EO34 Z1 Z2

				required	actual
	Hardness , Tensile strength Ultimate elongation,	(ASTM D2240), (ASTM D412), (ASTM D412),	ShA min MPa min %	80 ± 5 >14 > 125	79 17 160
A14	Heat resistance, Test method ASTM D573 (70h @ 100 C)				
	Change in h ardness, Change in t ensile strength, Change in ultimate e longation,	(ASTM D2240), (ASTM D412), (ASTM D412),	max points max % max %	±15 -20 -40	+4 -12 -15
B14	Compression set, Metod B ASTM D395 (22h @ 100 C; 25%	max %	25	+12	
EO14	Fluid resistance, Test Method ASTM D471 ASTM Oil#1, (70h @ 100 C)				
	Change in hardness, Change in tensile strength, Change in ultimate e longation, Change in volume,	(ASTM D2240), (ASTM D412), (ASTM D412), (ASTM D 471),	max points max % max % max %	-5 to+15 -25 -45 -10 to+5	-3 +5 -20 -1
EO34	Fluid resistance, Test Method ASTM D471 ASTM Oil#3, (70h @ 100 C)				
	Change in hardness, Change in tensile strength, Change in ultimate e longation, Change in volume,	(ASTM D2240), (ASTM D412), (ASTM D412), (ASTM D 471),	max points max % max % max %	0 to-15 -45 -45 0to+35	-4 -22 -20 +17
Z1	Low-temperature resistance	(ISO 2921, TR 10; 50%)	O ⁰		-46
Z2	Fluid resistance, Test Method ASTM D471 MOLYKOTE 55M, (70h @ 100 C)				
	Change in hardness, Change in tensile strength, Change in ultimate e longation, Change in volume,	(ASTM D2240), (ASTM D412), (ASTM D412), (ASTM D 471),	max points max % max % max %	-5 to-15 -25 -25 -1 to+5	-3 10 -12 +3

The given values are based on a limited number of tests on standard test pieces (2mm sheets) produced in the laboratory. The data from finished parts can deviate from above values depending on the manufactories process and the component geometry.

Polyseal Material Technology Miroslav savkovic miroslav.savkovic@polyseal.rs