Compound NK701 - Technical Data sheet

Oil seal black NBR types Eriks R, Rst, M, Mst

Material :
Acrylnitril-Butadien compound

Specification :
acc. ASTM D2000 M2BG714 A14,B14,EO14,EO34,EF11,EF21,EA14,F17

Temperature resistance :
-30°C to +110°C

Physical properties	*Units*	*Requirements*	*Results*
Hardness	degrees Shore A	70+/-5	68
Tensile strength	N/mm^2	14,5min.	16,7
Elongation	%	250min.	453
Tear strength	Kg/cm	50min.	67
Specific gravity	gr/cm^3	1,29+/-0,02	1,29
Heat resistance at 100°C/70 h			
Hardness change	degrees Shore A	+/-15	+7
Tensile strength change	%	+/-30.	+7
Elongation change	%	-50%max.	-10
Volume change	%	-	-6
Compression set at 100°C/ 22h 25%	%	+25max.	+8 (on test slab)
ASTM oil n° 1 at 100°C/70 h			
Hardness change	degrees Shore A	-5:+10	+7
Tensile strength change	%	-25max.	+7
Elongation change	%	-45max.	-16
Volume change	%	-10:+5	-6
ASTM oil IRM 903 at 100°C/70 h			
Hardness change	degrees Shore A	-10:+5	-5
Tensile strength change	%	-45max.	-9
Elongation change	%	-45max.	-1
Volume change %	0:+25	+5	
ASTM Fuel A at 23°C/70 h			
Hardness change	degrees Shore A	+/-10	-1
Tensile strength change	%	-25max.	-4
Elongation change	%	-25max.	+6
Volume change %	-5:+10	-1	
ASTM fuel B at 23°C/70 h			
Hardness change	degrees Shore A	0:+/-30	-15
Tensile strength change	%	-60max.	-23
Elongation change	%	-60max.	-12
Volume change %	0:+40	+22	
Water at 100°C/70 h			
Hardness change	degrees Shore A	-10:+10	-1
Tensile strength change	%	--	-1
Elongation change	%	--	+5
Volume change	%	-15:+15	+1
Low Temperature Brittleness			
-40°C for 3 minutes	-	non brittle	pass

Note :
The specifications given in this data sheet are the result of research carried out with the best possible accuracy and according to the test methods laid down in the standards referred to.
Tests carried out in different laboratories, under different conditions and/or with different prepared samples may give slightly different test results. This data sheet replaces all earlier given technical specifications which herewith, become void.

01.12.2006