

COMPARATIVE PROPERTIES TABLE OF THE VARIOUS ELASTOMERS

PHYSICAL-MECHANICAL PROPERTIES									
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Elastomer	Specific Gravity (Of base rubber) (1) Kg/cm ³	Hardness Shore A	Tensile Strength MPa	Elongation at break %	Rebound resilience %	Tear Strength	Abrasion Resistance	Impermeability at gas (Oxygen and Nitrogen)	Compression set at 100°C
NR	0,93	25÷95	14÷30	150÷850	30÷65				
IR	0,91	30÷90	12÷30	125÷850	30÷65				
SBR	0,95	35÷95	7÷28	125÷850	25÷55				
BR	0,94	30÷90	7÷18	120÷800	30÷70				
IIR	0,92	40÷85	7÷18	250÷800	6÷12				
CR	1,25	25÷90	7÷24	100÷800	20÷50				
EPM	0,86	40÷85	6÷18	150÷500	35÷55				
EPDM	0,86	40÷85	6÷18	150÷500	35÷55				
NBR	0,97	30÷90	7÷25	150÷750	10÷50				
XNBR	0,98	50÷95	8÷23	200÷725	10÷45				
HNBR	0,96	50÷95	8÷24	150÷750	30÷45				
CSM	1,20	40÷90	12÷24	150÷500	5÷20				
ACM	1,11	50÷90	5÷14	100÷350	5÷ 8				
EACM	1,10	40÷90	9÷18	250÷550	15÷25				
AU/EU	1,15	50÷95	15÷35	250÷700	35÷50				
CO/ECO	1,31	40÷90	6÷15	150÷500	10÷35				
VMQ	1,20	30÷80	4÷9	400÷600	40÷55				
PVMQ	1,15	20÷70	6÷9	150÷300	40÷50				
FVMQ	1,47	38÷73	6÷10	150÷500	30÷40				
FPM	1,82	50÷90	5÷17	125÷300	5÷10				

NB. The highest evaluation of the properties corresponds to: the lowest to:

The abbreviation -NR- indicates 'Not recommended' application.
































































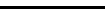




































The abbreviation -NA- indicates 'Not available' datum.

(1) With respect to the above, the product may result greater by 0,15 ÷ 0,30 Kg/cm³.

RESISTANCE TO:

(k)	(l)	(m)	(n)	(o)
Extreme working temperatures	Heat aging	Low temperatures	Ozone and weathering	Flame
°C				
-45÷ 85				NC
-45÷ 80				NC
-40÷ 90				NC
-50÷ 80				NC
-30÷120				NC
-40÷100				
-40÷140				NC
-40÷155				NC
-40÷110				NC
-45÷120				NC
-45÷170				NC
-15÷120				
-20÷170				NC
-40÷175				
-25÷110				NC
-40÷125				
-50÷225				
-75÷200				
-50÷200				
-20÷250				

CHEMICAL RESISTANCE

(p)	(q)	(r)	(s)	(t)	(u)	(v)	(z)
Distilled water	Medium-high concentrated acids (at 50°C)	Max concentrated alkalis (at 50°C)	Mineral oils and aliphatic hydrocarbons	Animal and vegetable oils and greases	Aromatic hydrocarbons	Chloride Solventes	Ketones
			NC	NC	NC	NC	
			NC	NC	NC	NC	
			NC		NC	NC	
			NC	NC	NC	NC	
			NC		NC	NC	
					NC	NC	
			NC		NC	NC	
			NC		NC	NC	
	NC					NC	NC
	NC					NC	NC
	NC						NC
						NC	
					NC	NC	NC
	NC	ND			NC	NC	NC
	NC	NC					
							NC
		NC			NC	NC	
	NC	NC			NC	NC	
	NC						NC
							NC

Tipi di elastomeri

NR	Natural rubber
IR	Synthetic Polysoprene
SBR	Styrene-butadiene rubber
BR	Polibutadiene rubber
IIR	Butyl rubber
CR	Polychloroprene
EPM	Ethylene-Propylene
	Copolymer
EPDM	Ethylene-Propylene
	Terpolymer
NBR	Nitrile-butadiene rubber
XNBR	Nitrile rubber
	Carboxylated
HNBR	Nitrile rubber
	Hydrogenated
CSM	Chlorosulphonated polyethylene
ACM	Polyacrylic rubber
EACM	Ethylene-Acrylic rubber
AU/EU	Polyurethan rubber
CO/ECO	Epichlorohydrin rubber
VMQ	Silicone rubber
PVMQ	Silicone rubber
FVMQ	Fluorosilicone rubber
FPM	Fluoroelastomer