

Rubber Elastomer Properties

Physical properties	DIN - standard ASTM - standard	Unit	RUBBER ELASTOMER				
			NBR	H-NBR	FPM	EPDM	EPDM
Colour			Black	Black	Brown	Black	Reddish brown
Hardness	53505 2240	Shore A	85±5	85±5	85±5	85±5	85±5
Hardness	53505 2240	Shore D	34	34	34	34	34
Density	53479	g/cm ³	1.32	1.23	2.51	1.23	1.54
100% modulus	53504	N/mm ²	≥ 11	≥ 10	≥ 7	≥ 10	≥ 55
300% modulus	D412						
Tensile strength	53504/53455 D412	N/mm ²	≥ 17	≥ 18	≥ 13	≥ 14	≥ 7
Elongation at break	53504/53455 D412	%	≥ 155	≥ 200	≥ 200	≥ 130	≥ 130
Modulus of elasticity tensile test	53457	N/mm ²					
Compression set 70°C/23h 25%Def	53517 D395	%					
70°C/70h 25%Def	53517 D395	%					
100°C/22h	53517	%	≤ 15	≤ 20		≤ 15	
175°C/22h	53517	%			≤ 20		≤ 15
Rebound resilience	53512 D2632	%	28	29	7	38	44
Tear strength	52512 D624	N/mm ²	20	30	21	15	8
Abrasion	53516	mm ³	90	90	150	120	
min. service temp.		°C	-30	-25	-20	-50	-60
max. service temp.		°C	+100	+150	+210	+150	+210