
Natural rubber compounds — Specification

ICS 83.060

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Table 2 — Physical properties of two-thickness test sheets

Physical property	Grade designation												Test method in BS 903 and type of test piece where appropriate	
	W40	Y40	Z40	W50	Y50	Z50	W60	Y60	Z60	W70	Z70	Z80		
Hardness after vulcanization (IRHD)	40 ⁺⁵ ₋₄			50 ⁺⁵ ₋₄			60 ⁺⁵ ₋₄			70 ⁺⁵ ₋₄			80 ⁺⁵ ₋₄	Part A26, method N, two plies, 6.30 mm and 2.00 mm, with the thicker ply on top
Density (Mg/m ³)	Agreed value ± 0.02 ^a												Part A1, method A	
Minimum tensile strength (MPa)	17	19	19	17	17	17	14	17	17	10	14	10	Part A2, type 1 or type 2 dumbbells	
Minimum elongation at break (%)	500	600	600	400	500	500	400	400	400	250	300	200	Part A6, type B test piece	
Maximum compression set (%)	30	30	30	30	30	30	30	30	30	30	30	40	Lubricated, 24 ⁰ ₋₂ h at (70 ± 1) °C	
Resistance to accelerated ageing													Part A 19, air-oven method A, (168 ± 2) h, (70 ± 1) °C	
Maximum change in tensile strength (% of original value)	-10			-10			-10			-10			-10	} Part A2, type 1 or type 2 dumbbells
Maximum change in elongation at break (% of original value)	-15			-15			-15			-15			-15	
NOTE Line call-outs, in accordance with BS 5176, are given in Annex C.														
^a No values are specified for density, but it is recommended that a value be established for each composition. This can provide a useful check when a series of batches of the same composition has to be tested for compliance with this British Standard.														