

		TEST TYPE ISO	8891	8040	8045	8045-1	8045-2	8045-3	8060-1	8060-2	8060-3	SG-95 / SG-95 LP	8051	8263 UL94 5VA	9012 FDA wet & dry
Description		-	Flexible rubber	PP	PP	PP / PE	PP / PE	PE	PP / PE	PP / PE	PP / PE	ABS	ABS	ABS	ABS
Properties	Soft		•												
	Semi rigid			•	•	•	•	•							
	Rigid								•	•	•	•	•	•	•
	High temp.								•	•	•		•		
	UV stable														
	FDA														•
	Others													•	•
Product colour at 25°C		-	White / translucent	White / opaque	White / transparent	White / translucent			Slightly yellow / translucent			Colourless / transparent	White / opaque	White translucent	
Hardness (Shore A/D)		868	20 A - 90 A	70 D	74 D	70 D	61 D	48 D	80 D	80 D	80 D	74 D - 82 D	77 D - 84 D	83 D	77 D
Flexural strength (MPa)		178	-	42	-	-	-	-	60	48	64	99	95	93	51
Flexural modulus (MPa)		178	-	1050	-	-	-	-	1310	1010	1320	2400	2200	2200	1310
Tensile modulus (MPa)		R 527	-	942	970	700	400	150	1225	-	-	2521	2150	-	-
Tensile strength (MPa)		R 527	2 - 17	27	32	24	12	10	47	-	-	58	63	68	40
Heat deflection temp °C (HDT)		-	-	65	79	53	42	35	105 - 175	90 - 110	115 - 180	72	92	80	90
Glass transition temp °C (Tg)		-	-	78	-	-	-	-	127 - 195	105 - 132	125 - 195	68	90	-	108
Elongation yield (%)		-	-	-	-	-	-	-	-	-	-	6	5	-	-
Elongation at break (%)		R 527	270 - 330	50	55	60	65	75	43	-	-	25	18	15	25
Tear strength (MPa)		34	7 - 34	-	-	-	-	-	-	-	-	-	-	-	-
Yield strength (MPa)		R 527	-	-	-	-	-	-	-	-	-	64.2	62	-	-
Izod impact (kJ/m²)		180	-	15	-	-	-	-	14	15	13	12	16	10	-
Thermal conductivity (W/mK)		BS 847	-	0.201	-	-	-	-	-	-	-	0.208	0.225	7	-
Specific gravity (kg/dm³ at 25°C)	Part A	-	1.0	1.05	1.07	1.07	1.07	1.07	1.03	1.03	1.03	1.07	1.12	1.3	1.10
	Part B	-	1.16	1.22	1.16	1.16	1.16	1.16	1.21	1.21	1.21	1.19	1.19	1.19	1.12
	Part C	-	0.99	-	-	0.99	0.99	0.99	-	-	-	-	-	-	-
Viscosity (cPs at 25°C)	Part A	-	470	1200	1000	1000	1000	1000	220	220	220	1300	7550	1000	1500
	Part B	-	170	140	220	220	220	220	50	50	50	130	180	160	150
	Part C	-	90	-	-	90	90	90	-	-	-	-	-	-	-
Mixing ratio by weight (A:B:C)		-	100:100 :0 - 300	110:90	100:140	100:140 :25	100:140 :50	100:140 :75	100:400	100:250	100:500	100:150	100:200	100:150	29:100
Pot life sec. (100g at 25°C)		-	200 - 360	300	345	320	300	270	285	270	330	300	300	360	720
Demoulding time (at 70°C) (hrs)		-	1.0	1.5 - 2.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.75	0.75	1.0	2.0
Shrinkage (%) according to wall thickness		-	1.0	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.2	0.2 - 0.3	0.3	0.5 - 1.0

Product	Cured colour	Shore Hardness (A/D) @23°C	De-mould Time (mins) @70°C	Heat Deflection (°C)	Glass Transition (°C)	Flexural Modulus (N/mm²)	Properties (see individual data sheets for full technical specifications)
8891	White / Translucent	20 A - 90 A	60	-	-	-	Low viscosity flexible rubber: completely adjustable hardness. Shoe soles, Gaskets, Hoses.
8040	White / Translucent	70 D	90-120	65	78	1050	Very low viscosity, excellent flow properties for thin wall section moulding. Easy to colour very good all round PP type material.
8045	White / Transparent	74 D	60	79	-	-	PP/PE Type. High impac. Snap fits. Pigmentable.
8045-1	Clear / Transparent	70 D	60	53	-	-	PP/PE type. Variable hardness properties. Pigmentable. Suitable for high impact snap fit applications
8045-2	Clear / Transparent	61 D	60	42	-	-	PP/PE type. Variable hardness properties. Pigmentable. Suitable for high impact snap fit applications
8045-3	Clear / Transparent	48 D	60	35	-	-	PP/PE type. Variable hardness properties. Pigmentable. Suitable for high impact snap fit applications
8060-1	Transparent / Yellowish	80 D	60	105 - 175	127 - 195	1310	Similar to PP/PE. High heat resistance . Very high impact strength.
8060-2	Transparent / Yellowish	80 D	60	90 - 110	105 - 132	1010	Similar to PP/PE. High heat resistance . Very high impact strength.
8060-3	Transparent / Yellowish	80 D	30	115 - 180	125 - 195	1320	Similar to PP/PE. High heat resistance . Very high impact strength.
SG95	Colourless / Transparent	74 D - 82 D	45	72	68	2400	Excellent all round ABS type properties. Suitably strong for snap fits. Perfectly Clear for colour matching.
SG95 LP	Colourless / Transparent	74 D - 82 D	45	72	68	2400	Excellent all round ABS properties. Suitably strong for snap fits. 100 % perfect for colour matching. Long pot life for producing very large thin walled components up to 10 Kg.
8051	White / Translucent	77 D - 84 D	45	92	90	2200	ABS Type: High heat stability. Strong flexing properties.
8263	White / Translucent	83 D	60	80	-	2200	Flame retardant, good impact strength. Certified fire retardant UL94 - VO. Suitable for electrical enclosures.
9012	White opaque	77 D	120	90	108	1310	Simulates ABS. Compliant to both dry and wet food FDA requirements.

* After post curing schedule (see individual data sheets)

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications.

Last update: 04/2023

More Information:
www.scott-am.com

