

Renishaw vacuum casting resins and silicone rubbers

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Description		TEST TYPE ISO	8891	8045	8045-1	8045-2	8045-3	8060-1	8060-2	8060-3	8095	SG-95	8051	6235	8263 - UL94 5VA FAR 25	9012 FDA wet & dry	420	RenSil F-type	VTV 740	VTV 750	VTV 800
Description		-	Flexible rubber	PP	PP/PE	PP/PE	PE	PP/PE	PP/PE	PP/PE	ABS	ABS	ABS	ABS	ABS	ABS	PP/ABS				
Properties:	Soft		•															•	•	•	•
	Semi rigid			•	•	•	•														
	Rigid							•	•	•	•	•	•	•	•	•	•				
	High temp.							•	•	•	•		•	•							
	UV stable																				
	FDA																•				
	Others											Low temp.			•	•					
Product colour at 25 °C		-	White / translucent	White / transparent	White / translucent			Slightly yellow / translucent			Colourless	Colourless / transparent	White / opaque	White / opaque	White translucent		White translucent	Colourless / translucent	Translucent	Transparent	
Hardness (Shore A/D)		868	20 A - 90 A	74 D	70 D	61 D	48 D	80 D	80 D	80 D	75 D	74 D - 82 D	77 D - 84 D	83 D	83 D	77 D	75 D	45 A	40 A	40 A	40 A
Flexural strength (MPa)		178	-	-	-	-	-	60	48	64	108	99	95	80	93	51	40	-	-	-	-
Flexural modulus (MPa)		178	-	-	-	-	-	1310	1010	1320	2460	2400	2200	1800	2200	1310	1020	-	-	-	-
Tensile modulus (MPa)		R 527	-	970	700	400	150	1225	-	-	2250	2521	2150	1850	-	-	-	-	-	-	-
Tensile strength (MPa)		R 527	2 - 17	32	24	12	10	47	-	-	64	58	63	67	68	40	30	6	6.5	6.5	5.5
Heat deflection temp °C (HDT)		-	-	79	53	42	35	105 - 175	90 - 110	115 - 180	77	72	92	98	80	90	68	-	-	-	-
Glass transition temp °C (Tg)		-	-	-	-	-	-	127 - 195	105 - 132	125 - 195	88	68	90	115	-	108	80	-	-	-	-
Elongation yield (%)		-	-	-	-	-	-	-	-	-	-	6	5	3	-	-	-	-	-	-	-
Elongation at break (%)		R 527	270 - 330	55	60	65	75	43	-	-	17	25	18	14	15	25	-	350	350	325	360
Tear strength (MPa)		34	7 - 34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	15	17	15
Yield strength (MPa)		R 527	-	-	-	-	-	-	-	-	-	64.2	62	67	-	-	-	-	-	-	-
Izod impact (kJ/M²)		180	-	-	-	-	-	14	15	13	11	12	16	15	10	-	-	-	-	-	-
Thermal conductivity (W/mK)		BS 847	-	-	-	-	-	-	-	-	0.2	0.208	0.225	0.241	7	-	-	-	-	-	-
Specific gravity (kg/dm³ at 25 °C)	Part A	-	1.0	1.07	1.07	1.07	1.07	1.03	1.03	1.03	1.05	1.07	1.12	1.11	1.3	1.10	1.02	1.08	1.08	1.09	1.10
	Part B	-	1.16	1.16	1.16	1.16	1.16	1.21	1.21	1.21	1.2	1.19	1.19	1.2	1.19	1.12	1.08	1.08	1.00	1.00	1.00
	Part C	-	0.99	-	0.99	0.99	0.99	0.99	-	-	-	-	-	-	-	-	-	-	-	-	-
Viscosity (cPs at 25 °C)	Part A	-	470	1000	1000	1000	1000	220	220	220	700	1300	750	850	1000	1500	80	55000	60000	90000	80000
	Part B	-	170	220	220	220	220	50	50	50	140	130	180	200	160	150	80	-	-	-	-
	Part C	-	90	-	90	90	90	90	-	-	-	-	-	-	-	-	-	-	-	-	-
Mixing ratio by weight (A:B:C)		-	100:100:0 - 300	100:140	100:140:25	100:140:50	100:140:75	100:400	100:250	100:500	100:150	100:150	100:200	100:200	100:150	29:100	100:100	100:10	100:10	100:10	100:10
Pot life sec. (100 g at 25 °C)		-	200 - 360	345	320	300	270	285	270	330	360	300	300	360	360	720	300	7200	7200	7200	7200
Demoulding time (at 70 °C) (hrs)		-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.75	0.75	0.75	0.5 - 1.0	1.0	2.0	0.5 - 1.5	24	12 - 24	12 - 24	12 - 24
Shrinkage (%) according to wall thickness		-	1.0	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.2	0.2	0.2 - 0.3	0.3	0.3	0.5 - 1.0	0.5 - 1.0	0.1	0.1	0.1	0.1