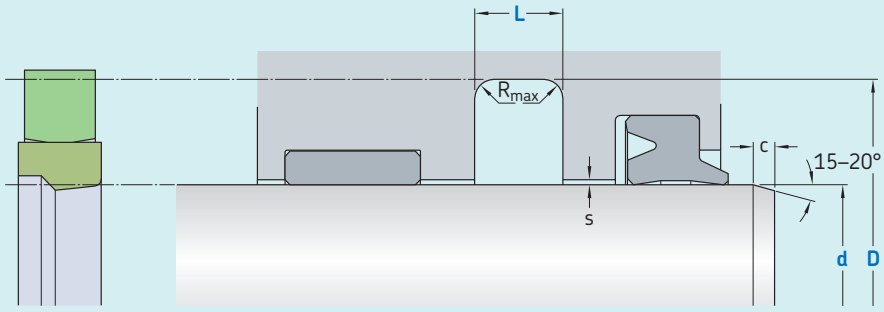
S09-ES



Ordering dimensions in **blue**

Surface roughness **TPU/ PTFE**	R_{tmax}	R_a
	µm	
Sliding surface	≤ 2,5 / ≤ 2*	0,05–0,3/0,2*
Bottom of groove	≤ 6,3	≤ 1,6
Groove face	≤ 15	≤ 3

Bearing area: 50–95% and a cutting depth of 0,5 R_z based on C_{ref} = 0%
* Lower value valid for PTFE

Standard dimensions d f8 over	incl.	D H10	L + 0,2	R_{max}	c	**Maximal radial extrusion gap** s* 100 bar	200 bar	400 bar	600 bar
mm						mm			
TPU and SKF Ecowear 1000									
4	**50**	d + 10	5,0	0,2	4,0	0,50	0,4	0,30	0,20
50	**60**	d + 15	7,5	0,3	5,0	0,50	0,4	0,30	0,20
60	**200**	d + 20	10,0	0,4	6,0	0,70	0,5	0,40	0,20
200	**300**	d + 25	12,5	0,4	8,5	0,80	0,6	0,50	0,30
300	**530**	d + 30	15,0	0,8	10,0	0,90	0,7	0,60	0,30
530	**680**	d + 35	17,5	1,2	11,5	1,00	0,8	0,70	0,30
680	**1 500**	d + 40	20,0	1,2	13,0	1,10	0,9	0,80	0,40
PTFE									
4	**50**	d + 10	5,0	0,2	4,0	0,40	0,3	0,20	0,10
50	**60**	d + 15	7,5	0,3	5,0	0,50	0,3	0,20	0,10
60	**200**	d + 20	10,0	0,4	6,0	0,60	0,4	0,25	0,15
200	**300**	d + 25	12,5	0,4	8,5	0,60	0,4	0,25	0,15
300	**530**	d + 30	15,0	0,8	10,0	0,70	0,5	0,30	0,20
530	**680**	d + 35	17,5	1,2	11,5	0,80	0,6	0,50	0,20
680	**1 500**	d + 40	20,0	1,2	13,0	1,00	0,7	0,60	0,30

* Extrusion gap values shown above are valid for a temperature of 80 °C, higher temperatures require lower values.

Ordering example

Profile	**S09-ES**
d x D x L [mm]	**100 x 120 x 10**
Sealing material / Energizer	**X-ECOPUR / SKF Ecorubber-1 or SKF Ecoflon 3 / SKF Ecorubber-1**

S09-ES

Operating parameters

Material Glide ring	Energizer	Temperature from	 to	Speed[1] max	Pressure[2] max
		°C		m/s	bar *(MPa)*
X-ECOPUR	SKF Ecorubber-1	–30	+100	5	600 *(60)*
X-ECOPUR	SKF Ecosil	–60	+100	5	600 *(60)*
G-ECOPUR 54D	SKF Ecorubber-1	–30	+100	5	600 *(60)*
G-ECOPUR 54D	SKF Ecosil	–60	+100	5	600 *(60)*
X-ECOPUR H	SKF Ecorubber-1	–30	+100	5	600 *(60)*
X-ECOPUR H	SKF Ecosil	–60	+100	5	600 *(60)*
X-ECOPUR S	SKF Ecorubber-1	–30	+100	5	600 *(60)*
X-ECOPUR S	SKF Ecosil	–60	+100	5	600 *(60)*
SKF Ecoflon 2	SKF Ecorubber-1	–30	+100	10	600 *(60)*
SKF Ecoflon 2	SKF Ecorubber-2	–20	+200	10	600 *(60)*
SKF Ecoflon 3	SKF Ecorubber-1	–30	+100	10	600 *(60)*
SKF Ecoflon 3	SKF Ecorubber-2	–20	+200	10	600 *(60)*
SKF Ecoflon 4	SKF Ecorubber-1	–30	+100	10	600 *(60)*
SKF Ecoflon 4	SKF Ecorubber-2	–20	+200	10	600 *(60)*
SKF Ecowear 1000	SKF Ecorubber-1	–30	+90	5	400 *(40)*
SKF Ecowear 1000	SKF Ecosil	–60	+90	5	400 *(40)*

IMPORTANT NOTE: The stated operating conditions represent general indications. It is recommended not to use all maximum values simultaneously.
1) Surface speed limit values are valid only in the presence of a lubrication film.
2) Pressure ratings depend on the size of the extrusion gap.

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