

# Stock Shapes for Life Science

## – Quadrant Life Science Grades (LSG)



Quadrant Life Science Grades (LSG) are designed specifically for the medical, pharmaceutical and biotechnology markets. They help OEMs to save time and costs associated with biocompatibility testing and regulatory approvals. Key benefits of the Life Science Grades are:

### **Performance**

Using the cutting edge material portfolio from Quadrant will replace existing solutions made of stainless steel, Titanium and glass or ceramics due to a combination of properties like weight reduction, resistance to commonly used sterilisation methods, X-ray transparency, design flexibility, antistatic performance and resistance to high energetic radiation.

### **Biocompatibility**

The LSG portfolio includes plastics which comply with FDA, ISO 10993 and USP guidelines for biocompatibility testing of materials.

### **Full traceability**

Quadrant provides OEMs with assurance of full traceability for its comprehensive LSG product portfolio.

### **Quality assurance**

In line with its ISO 9001:2000 certified Quality Assurance System, Quadrant EPP thoroughly monitors and controls the entire manufacturing process of its Life Science Grades.

# Quadrant® LSG PSU/LSG PC



Polysulfone [PSU]/Polycarbonate [PC]

Quadrant® LSG PSU natural

Quadrant® LSG PC natural

ROUND RODS					
Diameters [mm]	Tolerances on the diameters [mm]	Quadrant® LSG PSU natural		Quadrant® LSG PC natural	
		Standard length per piece: [3000 mm <sup>[1]</sup> ]			
		[kg/pce <sup>[2]</sup> ]		[kg/pce <sup>[2]</sup> ]	
5		0,08	□	–	–
6		0,11	□	0,11	□
8	+0,1 +0,2	0,20	□	0,19	□
10		0,30	□	0,29	□
12		0,44	□	0,43	□
15		0,68	□	–	–
16		0,77	□	0,75	□
18		0,98	□	0,95	□
20	+0,3 +0,4	1,21	□	1,17	□
22		1,46	□	1,41	□
25		1,88	□	1,82	□
28		2,36	□	2,28	□
30		2,70	□	2,61	□
32		3,06	□	2,97	□
36	+0,3 +0,5	3,87	□	3,75	□
40		4,77	□	4,65	□
45		6,06	□	5,88	□
50		7,47	□	7,26	□
56		9,36	□	9,09	□
60	+0,4 +0,6	10,74	□	10,44	□
65		12,60	□	12,24	□
70		14,61	□	14,19	□
75		17,64	□	16,89	□
80	+0,4 +3,0	20,01	□	19,17	□
90	+0,5 +3,4	25,35	□	24,27	□
100	+0,6 +3,8	31,35	□	29,97	□
110	+0,7 +4,2	37,95	□	36,30	□
120		45,15	□	43,20	□
125	+0,8 +4,6	48,90	□	46,80	□
130		53,25	□	50,85	□
140	+0,9 +5,4	61,50	□	58,80	□
150	+1,0 +5,8	70,65	□	67,50	□
160	+1,1 +6,3	–	–	76,95	□
170		–	–	87,15	□
180	+1,2 +7,4	–	–	97,50	□
190		–	–	109,05	□
200	+1,3 +8,5	–	–	120,45	□
Other standard length: [1000 mm <sup>[1][3]</sup> ]					

<sup>[1]</sup>: tolerance on the length -0/+3%

<sup>[2]</sup>: average production weights

<sup>[3]</sup>: non-standard length for diameters over 60 mm [manufactured to order and subject to special conditions]

- : **standard** item [generally available from stock; bulk quantities to be manufactured to order]
- ▣ : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]
- : **non-standard** item [generally not available from stock, manufactured to order and subject to special conditions; improved availability possible upon customer planning]



# Quadrant® LSG PSU/LSG PC

Polysulfone [PSU]/Polycarbonate [PC] – PSU]

Quadrant® LSG PSU natural

Quadrant® LSG PC natural

PLATES					
Thicknesses [mm]	Tolerances on the thicknesses [mm]	Quadrant® LSG PSU natural		Quadrant® LSG PC natural	
		Standard size per piece: [625 x 3000 mm <sup>[1]</sup> ]			
		[kg/pce <sup>[2]</sup> ]		[kg/pce <sup>[2]</sup> ]	
10	+0,2 +0,9	25,71	□	–	–
12		31,65	□	–	–
15		38,85	□	37,65	□
16		41,25	□	39,90	□
18	+0,3 +1,5	46,05	□	44,55	□
20		50,85	□	49,20	□
25		62,85	□	60,75	□
30		<b>76,65</b>	■	74,25	□
35		88,65	□	85,80	□
40	+0,5 +2,5	100,65	□	97,50	□
45		112,65	□	109,05	□
50		124,65	□	120,75	□
Other standard size: [625 x 1000 mm <sup>[1][3]</sup> ]					

<sup>[1]</sup>: tolerances on width +5/25 mm, on length -0/+3 %

<sup>[2]</sup>: average production weights

<sup>[3]</sup>: non-standard size for thicknesses over 25 mm [manufactured to order and subject to special conditions]

- : **standard** item [generally available from stock; bulk quantities to be manufactured to order]
- ▣ : **semi-standard** item [generally not available from stock, minimum order quantity 1 piece]
- : **non-standard** item [generally not available from stock, manufactured to order and subject to special conditions; improved availability possible upon customer planning]