

iglide® standards...



iglide® A181
The universal bearing for food contact
FDA- and EU10/2011-compliant



iglide® A350
The endurance runner at higher temperatures in the food sector
FDA- and EU10/2011-compliant



iglide® A500
The media and temperature specialist in the food sector
FDA- and EU10/2011-compliant



iglide® G300
The classic all-rounder
Excellent price-performance ratio



iglide® H1
Endurance runner with high media resistance
Excellent coefficients of friction and wear



iglide® H370
Extremely long service life under water
High media resistance



iglide® J
The versatile endurance runner
Very wear-resistant on (almost) all shafts,
very low coefficients of friction



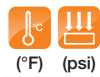
iglide® J3
The new endurance runner: specialist for pivoting and oscillating loads
Up to three times more wear resistant than iglide® J with loads up to 1,450 psi



Maximum long-term application temperature



Max. recommended surface pressure at +68°F



(°F)	(psi)
194	4,496

356	8,702

482	17,400

266	11,600

392	11,600

392	10,880

194	5,076

194	6,527



(°F)	(psi)
356	
	8,702

194	8,702

176	3,400

266	7,252

212	7,252

266	17,400

194	3,336

482	21,750

482	21,750

iglide® J350
Endurance runner with high dimensional stability in high temperature
Can be used with many shafts and collective loads

iglide® L280
The classic endurance runner up to 4,350 psi
Very wear-resistant on (virtually) all shafts

iglide® M250
The sturdy all-rounder according to DIN ISO 2795
Excellent vibration dampening

iglide® P
The low-priced outdoor all-rounder
No moisture expansion even with high ambient humidity

iglide® P210
Specialist for pivoting, rolling applications and more
Good coefficients of friction and wear on almost all shafts

iglide® Q2
The durable heavy duty bearing
Combined wear resistance and compressive strength at high loads

iglide® R
Low cost material, Low wear
Low-cost material with low coefficients of friction and good wear resistance at low to medium loads

iglide® T500
The chemical and temperature specialist
Up to 21,760 psi static

iglide® Z
Extremely long service life under extreme conditions
Resistant to wear and impact even at high loads and temperatures



iglide® Standards...

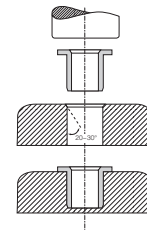
... Material properties

	iglide®	A181	A350	A500	G300	H1	H370
Installation tolerances		E 10	F 10	F 10	E 10	F 10	F 10
General properties							
Density	(g/cm³)	1.38	1.42	1.28	1.46	1.53	1.66
Max. moisture absorption at +73°F and 50 %r.h.	(weight-%)	0.2	0.6	0.3	0.7	0.1	0.1
Max. moisture absorption	(weight-%)	1.3	1.9	0.5	4.0	0.3	0.1
Coefficient of sliding friction, dynamic, against steel	(μ)	0.10 0.21	0.10 0.20	0.26 0.41	0.08 0.15	0.06 0.20	0.07 0.17
pv-value, max. (dry)	(psi · fpm)	8,750	11,500	8,000	12,000	22,800	21,000
Mechanical properties							
Modulus of elasticity	(psi)	277,500	290,100	522,100	1,131,000	406,100	1,610,000
Tensile strength at +68°F	(psi)	6,962	15,950	20,310	30,460	7,977	19,580
Compressive strength	(psi)	8,702	11,310	17,110	11,310	11,310	11,460
Max. permissible stat. surface pressure +68°F	(psi)	4,496	8,702	17,400	11,600	11,600	10,880
Shore D hardness		76	76	83	81	77	82
Physical and thermal properties							
Max. long term Application temperature	(°F)	+194	+356	+482	+266	+392	+392
Max. short term application temperature	(°F)	+230	+410	+572	+428	+464	+464
Minimum application temperature	(°F)	-58	-148	-148	-40	-40	-40
Axial fixation temperature	(°F)	+140	+284	+266	+212	+176	+212
Thermal conductivity	(W/m · K)	0.25	0.24	0.24	0.24	0.24	0.5
Coefficient of thermal expansion at +73°F	(K ⁻¹ · 10 ⁻⁶)	11	8	9	9	6	5
Electric properties							
Specific volume resistance	(Ωcm)	> 10 ¹²	> 10 ¹¹	> 10 ¹⁴	> 10 ¹³	> 10 ¹²	< 10 ⁵
Surface resistance	(Ω)	> 10 ¹²	> 10 ¹¹	> 10 ¹³	> 10 ¹¹	> 10 ¹¹	< 10 ⁵

J	J3	J350	L280	M250	P	P210	Q2	R	T500	Z
E10	E 10	F 10	E 10	D11	E 10	E 10	E 10	E10	F 10	F 10
1.49	1.42	1.44	1.24	1.14	1.58	1.40	1.46	1.39	1.44	1.4
0.3	0.3	0.3	1.3	1.4	0.2	0.3	1.1	0.2	0.1	0.3
1.3	1.3	1.6	6.5	7.6	0.4	0.5	4.6	1.1	0.5	1.1
0.06 0.18	0.06 0.20	0.10 0.20	0.08 0.23	0.18 0.40	0.06 0.21	0.07 0.19	0.22 0.42	0.09 0.25	0.09 0.27	0.06 0.14
9,700	14,000	13,000	6,600	3,400	11,000	11,000	19,500	8,700	37,700	24,000
348,100	391,600	290,100	507,600	3,400	768,700	362,540	1,214,000	282,800	1,174,800	348,100
10,590	10,150	7,977	18,130	16,240	17,400	10,152	34,810	10,150	24,660	13,775
8,702	8,702	8,702	8,847	7,542	9,572	7,250	18,850	9,863	14,500	9,425
5,076	6,527	8,702	8,702	2,901	7,250	7,250	17,400	3,336	21,760	21,750
74	73	80	77	79	75	75	80	77	85	81
+194	+194	+356	+194	+176	+266	+212	+266	+194	+482	+482
+248	+248	+428	+356	+338	+392	+320	+392	+230	+599	+590
-58	-58	-148	-40	-40	-40	-40	-40	-58	-148	-148
+140	+140	+302	+140	+140	+194	+122	+176	+122	+275	+293
0.25	0.25	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.60	0.62
10	13	7	9	10	4	8	8	11	5	4
> 10 ¹³	> 10 ¹²	> 10 ¹³	> 10 ¹³	> 10 ¹³	> 10 ¹³	> 10 ¹²	> 10 ¹³	> 10 ¹²	< 10 ⁵	> 10 ¹¹
> 10 ¹²	> 10 ¹²	> 10 ¹⁰	> 10 ¹²	> 10 ¹¹	> 10 ¹²	> 10 ¹¹	> 10 ¹¹	> 10 ¹²	< 10 ³	> 10 ¹¹

Installation tolerances

iglide® plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the equivalent tolerances. For particular dimensions the tolerance differs depending on the wall thickness.



Ø d1	Shaft h9	Tolerances			Housing H7
		E10	F10	D11	
3 - 6	0-0.030	+0.020 +0.068	+0.010 +0.058	+0.030 +0.105	0 +0.012
6 - 10	0-0.036	+0.025 +0.083	+0.013 +0.071	+0.040 +0.130	0 +0.015
10 - 18	0-0.043	+0.032 +0.102	+0.016 +0.086	+0.050 +0.160	0 +0.018
18 - 30	0-0.052	+0.040 +0.124	+0.020 +0.104	+0.065 +0.195	0 +0.021
30 - 50	0-0.062	+0.050 +0.150	+0.025 +0.125	+0.080 +0.240	0 +0.025
50 - 80	0-0.074	+0.060 +0.180	+0.030 +0.150	+0.100 +0.290	0 +0.030