

Materials for Mechanical Applications

SGL Group's Graphite Specialties

	Grade	Impregnation	Density g/cc	Flexural strength psi	Compressive strength psi	Young's Modulus psi x 10 ⁶	Rockwell hardness	Thermal conductivity Btu x hr ⁻¹ x ft ⁻¹ x °F ⁻¹	Coefficient of thermal expansion in/in/°F x 10 ⁻⁶	Porosity (open) Vol. %	Temperature resistance °F in ox. atm.	Temperature resistance °F in red. atm.	Cylinder* (Inch) Diameter	Cylinder* (Inch) Height	Square Block* (Inch) X	Square Block* (Inch) Y	Square Block* (Inch) Z	Typical applications
Carbon-graphite	EK 20	—	1,70	8,000	22,500	3.2	105 HR 5/100	7	1.7	11,0	660	2,200	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	Wet running bearings
	EK 2200♦	Resin	1,82	11,000	29,000	3.4	110 HR 5/100	7.5	2.2	2,5	400	400	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	High loaded seals, bearings
	EK 2201♦	Resin	1,82	11,000	29,000	3.4	110 HR 5/100	8	2.1	2,5	500	500	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	Seals, bearings
	EK 2203♦	Resin	1,80	10,000	28,500	3.2	110 HR 5/100	8	2.1	2,5	350	350	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
	EK 2209	—	1,77	9,500	27,500	3.7	110 HR 5/100	8.5	2.0	2,5	660	750	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	High loaded seals, bearings
	EK 3205	Antimony	2,30	12,500	37,500	4.4	120 HR 5/100	10.5	2.2	2,5	660	1,000	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
	EK 2230♦	Resin	1,85	8,500	23,000	3.2	110 HR 5/100	8	3.6	2,5	400	400	23/4	1 3/4	4 5/16	4 1/2	15/16	High volume seals, bearings
	EK 2239	—	1,80	8,000	21,500	2.9	105 HR 5/100	9	2.5	2,5	660	750	23/4	1 3/4	4 5/16	4 1/2	15/16	
	EK 3235	Antimony	2,47	9,500	30,500	4.4	105 HR 5/150	12	2.8	2,5	660	1,000	23/4	1 3/4	4 5/16	4 1/2	15/16	Seals, bearings for dry running, mixed running
	EK 24	—	1,70	8,500	26,000	2.6	105 HR 5/100	8	2.3	8,0	660	2,200	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
	EK 2240♦	Resin	1,80	10,000	29,000	2.8	110 HR 5/100	8.5	2.8	2,5	400	400	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
	EK 2241▲♦	Resin	1,80	10,000	29,000	2.8	110 HR 5/100	8.5	2.6	2,5	500	500	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
	EK 2243♦	Resin	1,78	8,500	27,500	2.6	110 HR 5/100	9	2.5	2,5	350	350	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
	EK 3245	Antimony	2,20	11,500	36,000	3.2	120 HR 5/100	12	2.7	2,5	660	1,000	22 13/16	7 13/16	24 12 3/4	5 1/16	5 1/16	
Graphite	EK 25	—	1,69	6,500	18,000	2.3	100 HR 5/100	5	2.5	7,0	660	1,750	23/4	1 3/4	—	—	—	Seals, bearings for dry running, mixed running
	EK 2250	Resin	1,80	7,000	23,000	2.5	110 HR 5/100	6	2.8	2,5	400	400	23/4	1 3/4	—	—	—	
	EK 3255	Antimony	2,15	11,000	32,000	3.0	120 HR 5/100	7	2.9	2,5	660	1,000	23/4	1 3/4	—	—	—	
	EK 40▲	—	1,70	5,000	14,500	1.5	95 HR 5/100	14	2.5	14,0	950	4,550	85/8	103/16	12 15/16	5 1/2	2 13/16	Seals, bearings for dry running
	EK 200♦	Resin	1,82	7,000	29,500	1.9	115 HR 5/100	15	3.7	2,5	400	400	85/8	103/16	12 15/16	5 1/2	2 13/16	
	EK 201▲♦	Resin	1,82	7,000	29,500	1.9	115 HR 5/100	15	3.4	2,5	500	500	85/8	103/16	12 15/16	5 1/2	2 13/16	
	EK 203♦	Resin	1,80	6,000	23,000	1.9	115 HR 5/100	15	3.1	2,5	350	350	85/8	103/16	12 15/16	5 1/2	2 13/16	
	EK 204	Salt	1,78	6,000	20,500	1.9	105 HR 5/100	16	2.6	12,0	1,100	2,200	85/8	103/16	12 15/16	5 1/2	2 13/16	
	EK 305▲	Antimony	2,55	11,500	42,000	3.0	115 HR 5/100	19	3.3	2,5	950	1,000	85/8	103/16	12 15/16	5 1/2	2 13/16	
	V 1626	Salt	1,85	8,500	21,500	1.9	90 HR 5/100	46	2.2	10,0	1,100	2,200	—	—	12 15/16	97/16	1/4	Vanes f. high load. compr.
Resin Bond. Graphite	EK 60	—	1,73	11,500	17,500	3.2	80 HR 5/100	3.5	6.1	No	350	350	—	—	15 1/8	9 1/4	5/16	Vanes for compressors
	V 1771 ¹⁾	—	1,69	10,000	21,500	2.5	100 HR 5/100	2.9	9.9	No	428	428	—	—	15 1/8	9 1/4	5/16	Vanes f. high vol. compr.
	V 1352 ¹⁾	—	1,62	11,000	29,000	2.6	110 HR 5/100	1	9.4	No	350	350	—	—	15 1/8	9 1/4	3/8	Parts for compr., pumps
	V 1640 ¹⁾	—	1,69	12,500	30,500	2.0	110 HR 5/100	2	8.9	No	350	350	—	—	15 1/8	9 1/4	3/8	

* Maximum dimensions in mm

♦ Materials are certified for use in potable water and/or in foodstuff

▲ Materials are certified for use in oxydizing atmosphere

■ 20–150 °C

¹⁾ RIDURID®



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	Grade	Bulk density gm/cc	Top density gm/cc	Real density gm/cc	Spec. surface acc. to Blaine cm ² /g	Ash value (weight) %	Grain size distribution (Cilas granulometer 715)					Packing unit lb	Typical applications
							<3,780 µin %	<2,520 µin %	<1,260 µin %	<315 µin %	<39 µin %		
Graphite and carbon powder	EG 31	0,55	–	2,02	0.548	<1,0	100	97	67	26	5	154	Graphite powder with high resistivity against wear, oxidation und corrosion
	EG 32	0,33	0,63	–	0.672	<1,0	94	82	57	13	1	154	Graphite powder with good tribological properties
	V 1032	0,30	0,50	2,13	–	–	–	–	–	–	–	154	Graphite powder
	KG 19	0,45	0,90	–	0.69	–	99.9	96	75	25	2	154	Carbon powder
	V 1062	–	–	2,00	–	–	–	–	–	–	–	154	



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