

Properties of Popular Mersen Grades

		<u>2910</u>	<u>1940</u>	<u>2020</u>	<u>2191</u>	<u>2124</u>	<u>2236</u>	<u>2245</u>	<u>2303</u>	<u>2320</u>	<u>2363</u>	<u>2160</u>	<u>2175</u>
	Units												
Density	g/cm ³	1.75	1.76	1.77	1.74	1.84	1.78	1.80	1.76	1.83	1.80	1.84	1.88
Average Grain Size	µm	30	12	15	15	13	10	8	16	13	7	5	<4
Resistivity	µ-ohm.cm	1675	1300	1550	1070	1140	965	1520	1372	1020	1295	1500	1320
Flexural Strength	Mpa	32	45	45	44	58	52	69	40	56	52	76	86
Compressive Strength	Mpa	71	99	99	97	124	105	141	83	117	107	167	131
Hardness	Rockwell	80L	98L	95L	80L	80H	55(Sh)	90H	59(Sh)	95L	70H	90H	95H
C.T.E.	x 10 ⁻⁶ /°C (400-500C)	4.0	5.2	4.5	4.2	5.5	4.0	5.2	4.9	4.1	5.5	6.0	7.5
Porosity		17%	16%	9%	12%	8%	15%	10%	15%	10%	10%	7%	7%
Thermal conductivity	W/m°C	77	102	81	116	112	134	85	95	128	100	84	100
Ash	ppm	500	500	500	400	350	300	500	1000	200	400	150	400