

## Properties of Popular Mersen Grades

	<u>Units</u>	<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>
Density	g/cm <sup>3</sup>	1.74	1.79	1.77	1.75	1.84	1.78	1.80	1.76	1.80	1.80	1.86	1.88
Average Grain Size	μm	30	13	15	15	13	10	8	16	13	7	5	<4
Resistivity	μ-ohm.cm	1600	1320	1550	1090	1140	965	1520	1372	1120	1295	1370	1320
Flexural Strength	Mpa	30	40	45	44	58	52	69	40	50	52	78	86
Compressive Strength	Mpa	67	83	98	97	124	105	141	83	110	107	157	131
Hardness	Rockwell	70L	98L	95L	80L	80H	55(Sh)	90H	59(Sh)	95L	70H	95H	95H
C.T.E.	x 10 <sup>-6</sup> /°C (400-500C)	4.1	5.2	4.3	4.2	5.5	4.0	5.2	4.9	5	5.5	6.0	7.5
Porosity		17%	12%	9%	12%	8%	15%	14%	15%	10%			
Thermal conductivity	W/m°C	77	95	85	116	112	134	85	95	122	100	100	100
Ash	ppm	600	300	750	750	300	300	500	700	300	400	300	300