Isostatic Fine Grained Graphites

Technical Data

Olmec's range of isostatically moulded fine grained graphites are suited to a wide range of applications and hi-tech industries. This datasheet includes a number of our most popular grades but does not include all available isostatic materials. Supplying the carbon and graphite fields for over four decades, Olmec have a wealth of knowledge to help ensure you are using the most suitable material for your application.

Industries using these graphites include the semi conductor industry, energy storage and production, aerospace, particle physics, the optical sector from quartz glass to optical fibres, air bearings, seal applications and many more.

The process of isostatically pressing graphite results in reliable and homogeneous materials.
With an ability to operate in temperatures approaching 3000°C because of its very low CTE and excellent shock resistance, you can be confident in the use of these isotropic graphites for your application.

We offer purified options when required and upon request.

If you require more information or assistance with selecting the appropriate grade for your processes, please don't hesitate to contact us at info@olmec.co.uk.

Grade	Flexural Strength	Compressive Strength	Youngs Modulus	Density	Porosity	Shore Hardness	Coefficient of Thermal Expansion	Thermal Conductivity	Ash Content	Particle Size
Units	MPa	MPa	GPa	g/cm^3	%	D-scale	10^{-6}/ °C	W/m.K	ppm	µm
Y547	43	85	11	1.79	13	59	4.4	105	500	15
Y472	55	117	11	1.82	10	55	5.5	102	500	15
Y545	45	90	10	1.81	12	60	4.5	120	500	13
Y449	46	86	11	1.78	12	62	4.6	105	200	10
Y552	60	135	12	1.85	11	90	5.8	115	500	8
Y454	65	135	11	1.80	11	75	5.4	85	300	5
Y780	75	150	14	1.90	5	90	6.5	85	200	3
Y450	80	160	14	1.90	5	90	6.0	85	200	2

figures are typical and are subject to change without notice

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