

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. Having been supplying the carbon and graphite fields for over four decades we have a wealth of knowledge to help ensure you are using the most suitable material for your application.

Industries using these graphite's include semi-conductors, energy storage and production, aerospace, particle physics, the optical sector from quartz glass to optical fibres, air bearing and seal applications and many more.

The isotropic properties allow more simple design and use of these grades providing both reliable and homogeneous properties.

With an ability to operate up to temperatures approaching 3000C, with a tiny variation if size because of the very low CTE and excellent shock resistance you can be confident in the use of the isotropic graphites for your application.

We offer purified options when required.

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 |
| Y441 | 38 | 80 | 8.8 | 1.68 | 18 | 60 | 5.8 | 90 | 500/50 | 15 |
| Y595 | 48 | 100 | 11 | 1.85 | 11 | 65 | 4.2 | 125 | 500/50 | 12 |
| Y472 | 51 | 115 | 11 | 1.85 | 12 | 65 | 5.6 | 115 | 500/50 | 10 |
| Y444 | 60 | 110 | 12.5 | 1.78 | 11 | 66 | 6.0 | 100 | 300/50 | 12 |
| Y552 | 60 | 135 | 12 | 1.91 | 11 | 90 | 5.8 | 115 | 500/50 | 8 |
| Y454 | 65 | 135 | 11 | 1.80 | 11 | 75 | 5.4 | 85 | 500/50 | 5 |
| Y780 | 75 | 150 | 14 | 1.90 | 5 | 90 | 6.5 | 85 | 300/50 | 3 |
| Y450 | 80 | 160 | 14 | 1.90 | 5 | 90 | 6.0 | 85 | 300/50 | 2 |

*Figures are typical and are subject to change without notice

Olmec Advanced Materials Limited Unit 37,
Venture One Business Park Long Acre Close
Sheffield
South Yorkshire S20 3FR
Tel : +44 (0) 114 236 1606
Email : info@olmec.co.uk

EORI Number: 570 6797 06 000
DUNS Number: 50 505 2859

Database > General > Datasheets > Graphites > Olmec > Fine Grained Collectivists > Isotherm IV 1.3

