

MATERIALS

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TECHNICAL PROPERTIES OF MICROPLAN® GROUP MATERIALS	AFRICA BLACK	FINE BLACK	BLUE LANHELIN	GNU CR5 ABSOLUTE	CELITH	SI-SIC	ALUMINA
Densità Density Densité Dichte	2.85 kg/dm ³	3.0 kg/dm ³	2.7 kg/dm ³	3.13 kg/dm ³	2.3 kg/dm ³	3.1 kg/dm ³	3.8 kg/dm ³
Porosità Porosity Porosité Porosität	0.09%	0.09%	0.35%	0.03%	-	0.0	0.0
Modulo di elasticità Young Modulus Coeff. d'élasticité Elastizitäts-Koeffizient	60 / 105 Gpa	90 / 110 Gpa	44 / 58 Gpa	106 / 115 Gpa	30 / 40 Gpa	340 Gpa	375 Gpa
Resistenza a compressione Compressive strength Résistance à la compression Druck-Festigkeit	244 MPa	260 MPa	188 MPa	270 MPa	120 / 150 MPa	2550 MPa	2700 MPa
Resistenza a trazione Tensile strength Résistance à la traction par fléxion Zugfestigkeit	24 MPa	28 MPa	21.5 MPa	33 MPa	10 / 15 MPa	340 MPa	350 MPa
Coeff. dilatazione termica Length expansion coeff. Coeff. de dilatation linéaire Thermischer Ausdehnungskoeffizient	6.5 x 10 ⁻⁶ m/m°C	6.2 x 10 ⁻⁶ m/m°C	7.4 x 10 ⁻⁶ m/m°C	5.8 x 10 ⁻⁶ m/m°C	10/15 x 10 ⁻⁶ m/m°C	4.5 x 10 ⁻⁶ m/m°C	7.4x 10 ⁻⁶ m/m°C
Conducibilità termica Thermal conductivity Conductivité thermique Wärmeleitfähigkeit	2 W /m°K	2.5 W /m°K	2 W /m°K	2.5 W /m°K	1-3 W /m°K	35 W /m°K	31 W /m°K
Modulo di Poisson Poisson's Ratio Modul de Poisson Poisson Modulus	0.26	0.26	0.28	0.26	-	0.19	0.22
Durezza Vickers Vickers hardness Durété Vickers Vickers-Härte	8.14 GPa	8.2 GPa	8.8 GPa	8.3 GPa	-	22 GPa	18 GPa

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