

POLARIS

DETERMINATION OF FROST RESISTANCE (ΕΛΟΤ EN 12371)

	Mass Loss (%)
Average	0.79

DETERMINATION OF FLEXURAL STRENGTH (ΕΛΟΤ EN 12372)

	Flexural Strength (N/mm ²)
Average	10.30

DETERMINATION OF WATER ABSORPTION (ΕΛΟΤ EN 13755)

	Water Absorption (%)
Average	0.20

DETERMINATION OF COMPRESSIVE STRENGTH (ΕΛΟΤ EN 1926)

	Compressive Strength (N/mm ²)
Average	86.45

DETERMINATION OF REAL DENSITY, APPARENT DENSITY, TOTAL & OPEN POROSITY (ΕΛΟΤ EN 1936)

	Real Density (Pr) Kg/m ³	Apparent Density (Pb) Kg/m ³	Open Porosity (Po) %	Total Porosity (P) %
Average	2840.4	2830.25	0.60	0.54

DETERMINATION OF ABRASION RESISTANCE (ΕΛΟΤ EN 14157)

	Loss (%)
Average	0.19

DETERMINATION OF MICROHARDNESS

	HV (Average)
Average	302.9

CHEMICAL ANALYSIS (Weight %)

Al ₂ O ₃ (%)	CaO (%)	SiO ₂ (%)	MgO (%)	Fe ₂ O ₃ (%)	K ₂ O (%)	Na ₂ O (%)	Loss on Ignition (LoI) (%)
Traces	32.50	Traces	19.30	0.31	0.13	0.14	46.45

X-RAY DEFRACTION ANALYSIS

The main element of the material is dolomite CaCO₃, MgCO₃

ANALYSIS BY:



WWW.CERECO.GR

