



T.C.
DOKUZ EYLÜL ÜNİVERSİTESİ
Torbalı Meslek Yüksekokulu

Sayı :43454348- 18
Konu :Doğal taş analiz raporu

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LABORATORY TEST REPORT

Owner :İZ-KO Marble
Description of Rock : Romar Beige

PHYSICAL PROPERTIES

Apparent Density (kg/m ³)	2689 ± 4	EN 1936
Real Density (kg/m ³)	2699 ± 2	EN 1936
Open Porosity (%)	0.475 ± 0.089	EN 1936
Total Porosity (%)	0.488 ± 0.018	EN 1936
Water Absorption at Atmospheric Pressure (%)	0.176 ± 0.033	EN 13755
Hardness (Mohs)	3- 3.5	TS 6809

MECHANICAL PROPERTIES

Uniaxial Compressive Strength (MPa)	147.40 ± 4.52	EN 1926
Flexural Strength Under Concentrated Load (MPa)	6.10 ± 0.51	EN 12372
Flexural Strength Un. Con. Load After Freezing and Thawing (MPa)	5.81 ± 0.18	EN 12372
Frost Resistance -Percentage Loos of Strength (14 cycle) (%)	4.99	EN 12371
Abrasion Resistance - Böhme Method (mm ³)	13446± 230	EN 14157
Abrasion Resistance - Wide Wheel Method (mm)	19.43 ± 0.50	EN 14157
Impact Strength (MPa)	26.67 ± 5.77	TS 699

CHEMICAL ANALYSIS

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	Cr ₂ O ₃	Ba	Ni	Sr	Zr	Y	Nb	Sc	*LOI	Sum.
%											ppm							%	
0.24	0.09	0.07	0.34	55.54	0.02	<0.01	0.01	<0.01	<0.01	<0.002	<5	<20	121	<5	<3	<5	<1	43.6	99.96

*LOI: Lost on ignition

Asist. Prof. Dr. Hakan ELÇİ