PERFORMANCES

MONOLITE IPERGRES

TECHNICAL CERAMIC

Performances

The *Department for Territory and Geological Resources of the Politecnico in Turin and the Ceramic Centre in Bologna* have carried out some physical and mechanical tests on **MONOLITE IPERGRES®** samples with these results:

STRUCTURAL PROPERTIES	VALUE
Density (weight for unit of volume g/cm3) – DIN 51064	2.17
Weight H20 mm Worktops per Square meter (+/– 5%)	43.50
Weight H28 mm Worktops per Square meter (+/– 5%)	44.80
Weight H38 mm Worktops per Square meter (+/– 5%)	48.50
DIMENSIONAL PROPERTIES AND QUALITY GLAZED SURFACE	
Dimensional and geometrical properties – UNI EN ISO 10545 – 2 / DIN 12916	Compliant
Colour stability to Light and UV rays – UNI EN ISO 10545 – 16	Maximum
MECHANICAL PROPERTIES	
Determination of moduls of rupture and breaking strength – EN ISO 10545 – 4	
• Average breaking load (N)	16,114
• Average breaking strength (N)	14,649
• Average Modulus of rupture (N/m2)	43.10
Flexural strength after frost resistance test (EN 100 – MPa)	40.60
Determination of impact resistance by measurement of coefficient of restitution EN ISO 10545 – 5	0.80
MECHANICAL PROPERTIES OF THE GLAZED SURFACE	
Determination of resistance to surface abrasion (UNI EN ISO 10545 – 7) Abrasion Stage PEI	5 Maximum
Hardness according to Mohs – DIN EN 101	6
THERMAL PROPERTIES	
Linear Thermal Expansion coefficient (10–6 °C–1) – UNI EN ISO 10545 – 8	6.5 – 7.0
Thermal Shock Resistance – UNI EN ISO 10545 – 9	OK
Crazing Resistance – UNI EN ISO 10545 – 11	OK
Frost Resistance – UNI EN ISO 10545 – 12	OK
Thermal Resistance (exposure up to 10 Hrs.)	up to 900 °C
CHEMICAL RESISTANCE	
Determination of Chemical Resistance of glaze surface – UNI EN ISO 10545 – 13	OK Maximum
Determination of stain resistance – UNI EN ISO 10545 – 14	OK Maximum
SAFETY PROPERTIES	
Releasing of Dangerous Substances, skid resistance – UNI EN ISO 10545 – 15	
Pb	0.00
Cd	0.00
Behaviour in Fire (Combustible material) – DIN EN 13501 – 1 – Euroclass A1	NO
Rediation Hygiene Certificate	OK