

2.2.1 Adhesive in cured state - mechanical and physical-chemical properties

Property	Value	Unit	Standard
Smell	No smell	-	-
Density cured mortar	1.83	g/cm ³	EN ISO 1183-1
Heat deflection temperature	90	°C	ASTM D 648-06 (curing @ 23°C/7 days)
Thermal expansion coefficient (-10°C to 80°C)	35	ppm/K	Internal method
Compressive strength (tcure = 24h)	95	N/mm ²	EN ISO 604 / HN569
Compressive strength (tcure = 7d)	110	N/mm ²	EN ISO 604 / HN569
Compressive strength (tcure = 28d)	110	N/mm ²	EN ISO 604 / HN569
Compressive strength T = -10°C	130	N/mm ²	EN ISO 604 / HN569
Compressive strength T = 120°C	40	N/mm ²	EN ISO 604 / HN569
Compressive strength (dry)	120	N/mm ²	EN ISO 604 / HN569
Compressive strength (50% humidity)	95	N/mm ²	EN ISO 604 / HN569
Compressive strength (water saturated)	80	N/mm ²	EN ISO 604 / HN569
Compressive strength modulus / E-modulus	1900	N/mm ²	EN ISO 604 / HN569
Flexural strength	20	N/mm ²	EN ISO 178:2010
Flexural strength modulus	2500	N/mm ²	EN ISO 178:2010
Tensile strength @ break	9	N/mm ²	ASTM D 638-97
Elongation @ break	0,75	%	ASTM D 638-97
Tensile strength modulus	2000	N/mm ²	ASTM D 638-97
Tensile strength T = -10°C	10	N/mm ²	ASTM D 638-97
Tensile strength T =120°C	2	N/mm ²	ASTM D 638-97
Specific contact resistance	15·10 ⁹	W·cm	DIN IEC 93
Specific surface resistance	200·10 ⁹	W·cm	DIN IEC 93
Electric strength	2	kV/mm	DIN VDE 303
Thermal conductivity	0,45 – 0,55	W/m·K	
Poisson ratio	0,3 – 0,4	-	
UV stability cured mortar (compressive strength)	No influence	-	Internal method



Hilti Emirates L. L. C.