


**Technical Data**

Properties	Test method	Nidaplast® 8	Nidaplast 8FR	Nidaplast 8HP
Compressive strength - 20° C	ISO 844	174.04 psi / 1,2 Mpa	174.04 psi / 1,2 Mpa	377.098 psi / 2,6 Mpa
Compressive modulus - 20° C	ISO 844	5801.5 psi / 40 Mpa	5801.5 psi / 40 Mpa	10152.63 psi / 70 Mpa
Perpendicular tensile strength (at break), 20° C	ASTM C297	116.030 psi / 0,8 Mpa	116.030 psi / 0,8 Mpa	116.030 psi / 0,8 Mpa
Shear strength - 20° C	ISO 1922	58.015 psi / 0,4 Mpa	58.015 psi / 0,4 Mpa	101.526 psi / 0,7 Mpa
Shear modulus - 20° C	ISO 1922	1305.3393 psi / 9 Mpa	1305.3393 psi / 9 Mpa	2030.527 psi / 14 Mpa
Water resistance, % retention of shear strength-20° C	ASTM C393	~100 % **	~100 % **	~100 % **
Heat resistance for honeycombs core 20 mm		R=0,3 m <sup>2</sup> .°C/W (soit λ = 0,067 W/(m.°C))	R=0,3 m <sup>2</sup> .°C/W (soit λ = 0,067 W/(m.°C))	R=0,3 m <sup>2</sup> .°C/W (soit λ = 0,067 W/(m.°C))
Heat resistance for honeycombs core 90 mm		R=0,6 m <sup>2</sup> .°C/W (soit λ = 0,14 W/(m.°C))	R=0,6 m <sup>2</sup> .°C/W (soit λ = 0,14 W/(m.°C))	R=0,6 m <sup>2</sup> .°C/W (soit λ = 0,14 W/(m.°C))
Behavior with fire		Standard quality inflammable. Possibility of M1/F0 classification for finished sandwich panels, depending on the sandwich skin	V2 Classification According to UL94	Product inflammable. Possibility of m1/F0 classification for finished panel
Chemical properties		Excellent resistance to water and most acids, bases and salt solutions	Same	Same
Resistance to Ultraviolet rays (U.V.)		The longevity for the core's storage is guaranteed by a anti U.V. - U.V. protection of the finished panel is ensured by the skins of the sandwich panel	The longevity for the core's storage is guaranteed by a anti U.V. - U.V. protection of the finished panel is ensured by the skins of the sandwich panel	The longevity for the core's storage is guaranteed by a anti U.V. - U.V. protection of the finished panel is ensured by the skins of the sandwich panel