CEL Components S.r.l.
Via Buozzi 25 - 40057 Granarolo (Bologna) Italy
Tel. +39 051 782505 Fax +39 051 782477
www.cel.eu info@cel.eu
P.IVA 04102600378 CCIAA BO 0339628
ALUMINIUM AND THERMOPLASTIC HONEYCOMBS, LAMINATES, SANDWICH PANELS

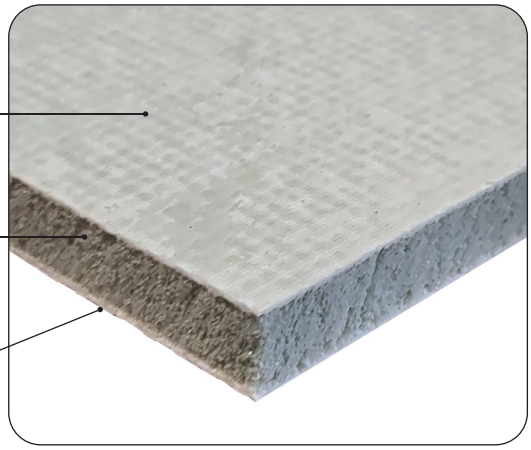
ENG

PET-STEP

Panel's composition

SKIN IN GLASSFIBRE
impregnated with epoxy resin 500 gr/m²

CORE
PET foam core



Technical data sheet for standard panels (dimensions, materials and special finishes on request)									
TECHNICAL CHARACTERISTICS OF PANEL	Panel thickness		mm	from 5 to 60					
	Panel size		mm	Standard dimensions 1000x2400 other dimensions on request					
	Thickness tolerance		mm	±0,4					
	Dimension tolerance		mm	± 30					
	Skins thickness		mm	0,5					
	Skin			Glass fibre plain 500 gr/m² 600 tex					
	Core materials			PET foam					
	Core thickness		µm	from 4 to 59					
	Core density		Kg/m³	from 80 to 200					
	Adhesive			Two-component epoxy					
PANEL PHYSICAL AND MECHANICAL PERFORMANCES	Panel thickness		mm	10	20	30	10	20	30
	Panel weight ‡		Kg/m²	3,1	4,1	5,1	4,0	6,0	8,0
	Core material			PET foam			PET foam		
	Foam density		Kg/m³	100			200		
	Compressive strength	ASTM C 365-365 M	MPa	1,3			3,79		
	Shear modulus		MPa	24			59		
	Yield load	ASTM C 393†	N	300	650	950	500	1050	1650
	Deflection at yield load	ASTM C 393†	mm	21±2	12±2	8±2	33±2	17±2	12±2
	Skins E Elastic Modulus**		Mpa	25'000±1'000					
	Moment of inertia I		mm^4/m	18'400	76'000	174'000	18'400	76'000	174'000
	Middle resistance to peeling **	ASTM D1781		> 265 N/76mm - 17 Nm/m			> 300 N/76 mm - 23 Nm/m		
	Thermal conductivity (referred to foam only)	a 23°C	W/(m·°K)	0,033			0,040		
	Thermal transmittance U (referred to foam only)	a 23°C	W/(m²·°K)	3,7	1,7	1,1	4,4	2,1	1,4
	Service temperature **		°C	- 40/ + 70					

** Tested by Internal Laboratory
† Sample dimension with 4 support points (L, W) 540x50 mm

PET-STEP

Last Revised: 05/26_Rev.2

CEL COMPONENTS

LIABILITY DISCLAIMER: The above data are to the best of our knowledge correct and are intended to give information about our products and their potential applications. No warranty is given or implied in respect of certain properties of the products or their suitability for a particular application. We reserve the right for technical changes without further notice. We guarantee impeccable product quality under our terms of sale.