

# MYcell-Y

## CRYOGENIC THERMAL INSULATING FOAM CORE

### ADVANTAGES

- ENHANCED FEATURES
- LOW THERMAL CONDUCTIVITY
- WELL-SUITED TO ALL SANDWICH NEEDS
- SUPERIOR INSULATION PROPERTIES
- LOW RESIN ABSORPTION
- EXCELLENT RESISTANCE TO CHEMICALS
- HIGH RESISTENCE AT CRYOGENIC TEMPERATURE

MYcell-Y is a closed cell cross-linked PVC foam with superior insulation properties for low and cryogenic temperature. MYcell-Y stands out thanks to its superior mechanical properties, low water/resin absorption, thermo-formability, insulation properties and workability. It is also compatible with the most popular resins used in composite structures, including epoxy, polyester and vinylester. MYcell-Y is available in a wide range of format and finishes that meet specific customer needs.

### FIELDS OF APPLICATION

MYcell-Y technical features, high performance and superior insulation properties make it an excellent choice for a variety of composite application. MYcell-Y can be used as a insulation material for LNG, building or composite material for marine, aeronautical, automotive, wind energy and sport equipment sector, carrying trade in addition to various industrial fields.

### SUSTAINABLE GRADES

**ecoGreEN** eco-variant of MYcell reduces the carbon footprint by incorporating raw materials produced using energy from renewable sources.

**ecoBlue** eco-variant of MYcell takes carbon footprint reduction a step further. MYcell EcoBlue incorporates raw materials derived from agricultural and industrial waste, all produced using energy from renewable sources.



TECHNICAL DATA SHEET  
TYPICAL VALUES

# MYcell-Y

CRYOGENIC THERMAL INSULATING FOAM CORE

FOAM			Y033	Y040	Y060	Y100
Density	ISO 845 (min)	kg/m <sup>3</sup>	33 (25)	40 (35)	60 (54)	100 (90)
Compressive strength	ISO 844:2014 B	MPa	0,41	0,52	0,98	2,05
Compressive modulus	ISO 844:2014 B	MPa	43	37	67	121
Shear strength	ISO 1922	MPa	0,31	0,47	0,79	1,48
Shear modulus	ISO 1922	MPa	11	15	21	36
Shear elongation at break	ISO 1922	%	6	6	18	25
Tensile strength	ASTM D 1623	MPa	0,53	0,71	1,82	3,18
Tensile modulus	ASTM D 1623	MPa	39	68	100	162
Thermal conductivity	ASTM C177	W/(m*K)	0,028	0,028	0,029	0,029
Standard block dimensions		mm	1385 2935 93	1330 2850 84	1150 2450 78	950 2050 68