

### General Material Properties \*

◆ General properties		Value	Units	Test Method	Remarks
Type of material	PP Block Copolymer				
Density		+/- 0.905	g/cm <sup>3</sup>	ISO 1183	
Melt Flow Index		6 +/- 2	g/10min	ISO 1133	at 230°C/2,16 kg
Stress at Yield		>= 30	Mpa	ISO 527	
Strain at Yield		>= 10	%	ISO 527	
Flex E-Modulus		1200 - 1550	Mpa	ISO 178	
Notched Izod		>= 10	kJ/m <sup>2</sup>	ISO 180	at 23°C
		>= 5	kJ/m <sup>2</sup>	ISO 180	at 0°C
		>= 3	kJ/m <sup>2</sup>	ISO 180	at -20°C
Hardness		67 +/- 2	Shore D	ISO 868	
Cristaline Melt Point		163 +/- 3	°C	DSC	
Caloric value		+/- 45	Mjoule/kg		
Water absorption		< 0,05	%		
◆ ROHS				EC2002/95	
◆ Chemical resistance					
	Oils and greases	Excellent resistance			
	Cleaning and disinfectant products	Excellent resistance			
	Midrew, algae and bacteria	Excellent resistance			
	Most acids, alkali, salts & others	List of chemical resistances on request			

\* We work with values within a range (+ / -, >=) because of variations in specific characteristics of raw materials of different suppliers.

### Panel properties

◆ Standard dimensions		Value	Units	Test method	Remarks
Length x width	2600 x 1000(+/- 0,4%)		mm	measured at 20 °C	
Thickness	50 (+/- 3%)		mm	measured at 20 °C	
◆ Weight		Value	Units	Test method	Remarks
		9,42 (+/- 4%)	kg/m <sup>2</sup>	measured at 20 °C	
◆ Mechanical		Value	Units	Test method	Remarks
Equivalent E-Modulus		530	Mpa	(100mm aligned)	AMARGO® test report on demand
		236	Mpa	(100mm across)	AMARGO® test report on demand
Impact resistance		>= 1,5	m	Dart drop test 2,7 kg	impactradius 1,5"
◆ Electrical properties		Value	Units	Test method	Remarks
Surface resistance		>= 10 exp14	Ohm	DIN VDE 0303	AMARGO® test report on demand

# AMARGO® Technical data sheet

## Sandwich Panels 50/100 in PP

### RAL 7032 UV

◆ Thermal properties		Value	Units	Test method	Remarks
Thermal conductivity		1,8	W/m <sup>2</sup> °K		AMARGO® test report on demand
Linear thermal expansion		1,2 - 1,5mm/m/10°C	°C	AMARGO®	In an area range from -20°C to +80°C
Utilisation range					
Permanent	Air	-20°C to +80°	°C		Related to load and environment conditions
Permanent	Water	0°C to +40°C	°C		Others on demand
Shortly	Steam	0°C to +100°C	°C		For cleaning
Euro fire resistance		E		EN-ISO 11925-2	AMARGO® test report on demand

◆ UV and Weathering Resistances		Value	Units	Test method	Remarks
UV resistant panels		10	year	Q-Sun	In mid european climate
50% of mechanical characteristics maintain					KLangley <= 100
UV resistance has no influence on panel surface expansion.					
Therefore dark colored panels are not recommended for use in direct contact to sunlight.					

◆ Sound insulation		Value	Units	Test method	Remarks
		RW 25-26	dB	EN ISO 717-1	AMARGO® test report on demand

◆ Welding guidelines parameters *		Value	Units	Test method	Remarks
Butwelding	Melting	+/- 30	sec	AMARGO®	0,12 N/m <sup>2</sup>
	Heating	+/- 0	sec		
	Welding	+/- 30	sec		
Thickness panel		8-18	mm		
Temperature		188	°C		
Extrusion welding	Bulk T°	223	°C	SKZ	AMARGO® test report on demand
	Hotgas T°	265-270	°C		
Hotgas flow rate		300	l/min		
Shoe width		14	mm		
Shoe length		40	mm		
Shoe A-Value		6-8	mm		
Hot air welding	T°	265-270	°C	AMARGO®	

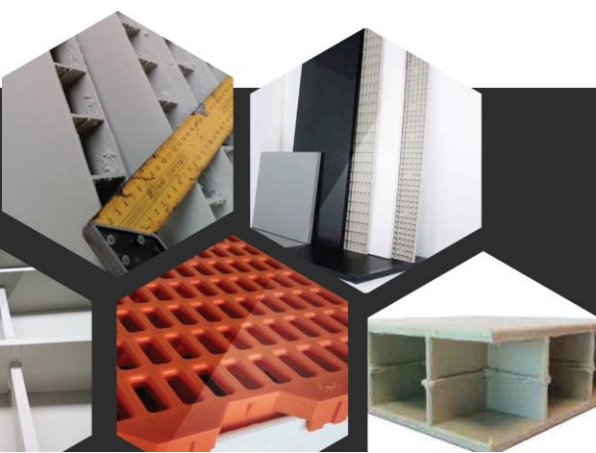
\* Values can vary depending the type of welding machine.

◆ Horizontal charge		Value	Units	Test method	AMARGO® test report on demand
Point load		3,60	kN/m <sup>2</sup>		For 1000 mm span, with maximum 1% deflection
Equally distributed load		5,75	kN/m <sup>2</sup>		For 1000 mm span, with maximum 1% deflection

◆ Food contact		Value	Units	Test method	Remarks
				EC1935/2004	AMARGO® test report on demand
				EC90/128 and EC2002/72	

◆ Recycling		Value	Units	Test method	Remarks
		100%	recyclable		

2/2



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