

# POLYCASA® CAST Anti-Bacteria

Polymethyl Methacrylate Acrylic

Polycasa

## Message:

Anti-bacteria is the brand name of the Polycasa PMMA CAST sheet, endowed with anti-microbial and fungicide protection. The additive used is almost colourless, meaning it can be used in all colour references, as well as in clear material. Polycasa Anti-bacteria is easier to thermoform than standard material, making it ideal for sawing, drilling, printing, milling, mechanical polishing and hot bending.

### CHARACTERISTICS

- Increases level of hygiene.
- Protects against and inhibits growth of active fungi, algae and bacteria — meaning no odours or dark surface stains.
- Easy to clean and maintain.
- Water insoluble, therefore unaffected by prolonged washing.
- Better chemical resistance and easier to thermoform than standard Polycasa material.
- Low migration with temperature — can be thermoformed without modifying its anti-microbial properties.
- Uses colourless additive.
- Mechanical properties are not modified compared to sanitary material.
- Not suitable for application in direct contact with food stuff.
- Evaluated in a biological laboratory using the standard ISO 846:1997.

### APPLICATIONS

- Hygienic furniture (medical and laboratory equipment).
- Sanitary ware (wall panels, shower trays and bath tubs).

General Information			
Additive	Antibacterial (fungicide)		
Features	mildew proof		
	Antibacterial		
	Antibacterial property		
	Good chemical resistance		
	The smell is low to none		
	Low or no water absorption		
Mobility	Low to None		
Uses	Hygiene		
	Furniture		
	Wallboard		
	Bathroom products		
	Medical/nursing supplies		
	Medical devices		
Bathroom accessories			
Appearance	Available colors		
	Clear/transparent		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method

Density	1.19	g/cm <sup>3</sup>	ISO 1183
Water absorption-Method A		mg	ISO 62
Maximum Service Temperature			
continuous use	80	°C	
short term use	75	°C	
Degradation Temperature	> 250	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	< 60.0	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	17	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	> 105	°C	ISO 306/B50
CLTE - Flow	7.0E-5	cm/cm/°C	ISO 11359-2
Additional Information	Nominal Value	Unit	

Resistance to light: 4/5 (UNE EN 263)Resistance to hot water: 4/5 (UNE EN 263)

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