



# PVC



**Amorphous plastic**, of a rigid mass, physiologically nontoxic and with specific weight 1.44 g/cm<sup>3</sup>. As all thermoplastics, it hardens with the cold and softens with the heat. For this reason, its mechanical resistance increases even at low temperatures, and its impact resistance decreases. It should be noted that the influence of temperature is almost nil up to 40°C. However, when the temperature is kept between 40°C and 60°C, the rigid PVC can be used in several applications, always considering that the pressures and mechanical loads they support are lower than the normal ones. At temperatures below 0° C, the material must be protected against impact.



## MAIN CHARACTERISTICS

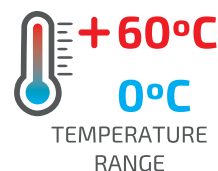
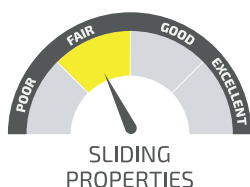
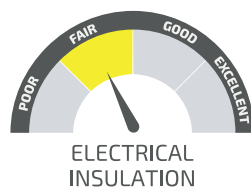
- ◆ Excellent chemical resistance
- ◆ UV resistant
- ◆ Resistant to adverse weather conditions
- ◆ High stiffness
- ◆ Used in the construction of tanks and chemical equipment

## APPLICATIONS

- ◆ Construction
- ◆ Chemical facilities
- ◆ Pharmaceutical industry and bioindustry
- ◆ Agriculture and livestock
- ◆ Construction of swimming pools
- ◆ Food production

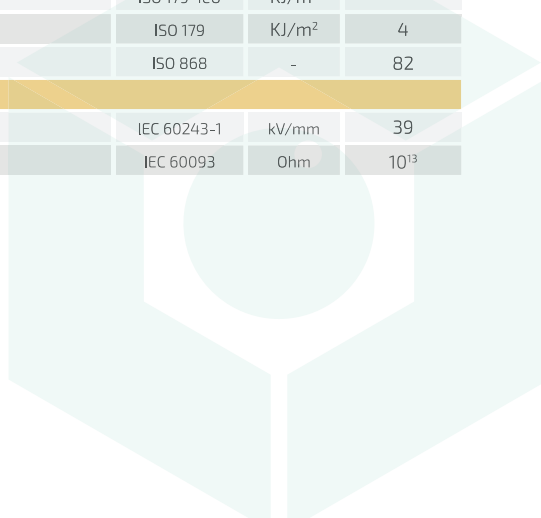
# POLY

# LANEMA





PROPERTIES	TEST METHODS	UNITS	PVC
COLOR		-	DARK GREY
DENSITY	ISO 1183	g/cm <sup>3</sup>	1.44
<b>THERMAL PROPERTIES</b>			
COEFFICIENT OF LINEAR THERMAL EXPANSION	ISO 11359-2	K <sup>-1</sup>	0.8 x 10 <sup>-4</sup>
MAXIMUM TEMPERATURE	-	°C	60
MINIMUM TEMPERATURE	-	°C	0
FLAMMABILITY	DIN 4102	-	BAIXA
<b>MECHANICAL PROPERTIES</b>			
TENSILE STRENGTH AT YIELD	ISO 527	MPa	58
ELONGATION AT YIELD	ISO 527	%	4
IMPACT RESISTANCE	ISO 179-1eU	KJ/m <sup>2</sup>	-
IMPACT RESISTANCE - UNNOTCHED	ISO 179	KJ/m <sup>2</sup>	4
SHORE HARDNESS D	ISO 868	-	82
<b>ELECTRICAL PROPERTIES</b>			
DIELECTRIC STRENGTH	IEC 60243-1	kV/mm	39
SURFACE RESISTIVITY	IEC 60093	Ohm	10 <sup>13</sup>



POLY

LANEWA