



POLYPROPYLENE GREY

Polypropylene Grey has been improved with special heat stabilizers to increase the material's life. This was first used in tanks and coatings for the chemical and semi-conductor industries. Together with the inherent properties of corrosion resistance, this product can last for more than 50 years compared to the standard values of Natural Polypropylene that has a life time of only 5 to 10 years in the same applications. Even at normal working temperatures, Gray Polypropylene is highly recommended. The small difference in cost, compared to lower quality products, is more than compensatory due to the considerable increase in the life time of this product.



MAIN CHARACTERISTICS

- ◆ Permanent heat stability
- ◆ High chemical resistance
- ◆ Good long-term properties when compared to other similar materials
- ◆ High rigidity at high temperatures
- ◆ Excellent for use in construction of chemical tanks and equipment

APPLICATIONS

- ◆ Civil engineering
- ◆ Chemical facilities
- ◆ Pharmaceutical industry and bioindustry
- ◆ Livestock and agriculture
- ◆ Aquaculture
- ◆ Construction of swimming pools
- ◆ Food production
- ◆ Mining

POLY LANEMA



CHEMICAL RESISTANCE



ELECTRICAL INSULATION



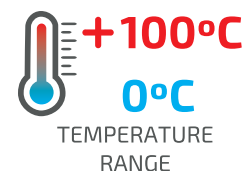
WEAR RESISTANCE



SLIDING PROPERTIES

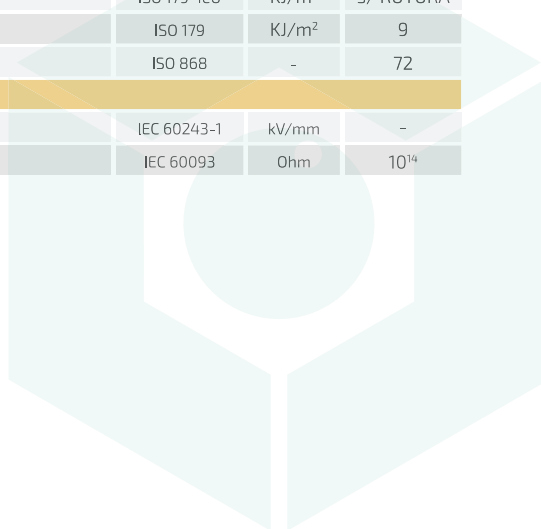


IMPACT AO RESISTANCE





PROPERTIES	TEST METHODS	UNITS	PP GREY
COLOR		-	GREY
DENSITY	ISO 1183	g/cm ³	0.91
THERMAL PROPERTIES			
COEFFICIENT OF LINEAR THERMAL EXPANSION	ISO 11359-2	K ⁻¹	1.6 x 10 ⁻⁴
MAXIMUM TEMPERATURE	-	°C	100
MINIMUM TEMPERATURE	-	°C	0
FLAMMABILITY	DIN 4102	-	NORMAL
MECHANICAL PROPERTIES			
TENSILE STRENGTH AT YIELD	ISO 527	MPa	33
ELONGATION AT YIELD	ISO 527	%	8
IMPACT RESISTANCE	ISO 179-1eU	KJ/m ²	s/ RUTURA
IMPACT RESISTANCE - UNNOTCHED	ISO 179	KJ/m ²	9
SHORE HARDNESS D	ISO 868	-	72
ELECTRICAL PROPERTIES			
DIELECTRIC STRENGTH	IEC 60243-1	kV/mm	-
SURFACE RESISTIVITY	IEC 60093	Ohm	10 ¹⁴



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