

ISSUED: 30/03/2023

ISO 9001 CERTIFIED

**OLEXENE PP10 G45 CA** is a polypropylene homopolymer injection moulding grade with 45% glass fibre, chemically coupled and heat stabilized.

PROPERTIES	CONDITIONS	TEST METHOD	UNITS	VALUES
<b>PHYSICAL PROPERTIES</b>				
Density	23 °C	ISO 1183	g/cm <sup>3</sup>	1.26
<b>REOLOGICAL PROPERTIES</b>				
Melt Volume rate	230°C/2.16 kg	ISO 1133	cm <sup>3</sup> /10 min	8
Moulding Shrinkage	longitudinal		%	0.15-0.35
	transversal			0.25-0.45
<b>PROCESSING CONDITIONS</b>				
Pre-drying conditions	2-4h		°C	80-120
Melt temperature, injection moulding			°C	200-250
Mould temperature			°C	20-70
<b>MECHANICAL PROPERTIES</b>				
Tensile modulus	23 °C, 1 mm/min	ISO 527-1-2	MPa	11.000
Tensile strength	23 °C, 50 mm/min	ISO 527-1-2	MPa	110
Elongation at break	23 °C, 50 mm/min	ISO 527-1-2	%	2,0
Flexural modulus	23 °C, 2 mm/min	ISO 178	MPa	10.500
Flexural strength	23 °C, 2 mm/min	ISO 178	MPa	165
Charpy unnotched impact strength	23°C	ISO 179/1eU	kJ/m <sup>2</sup>	50
Charpy notched impact strength	23°C	ISO 179/1eA	kJ/m <sup>2</sup>	12
<b>THERMAL PROPERTIES</b>				
Melting temperature (DSC)	10°C/min	ISO 3146	°C	165
Heat Deflection Temperature (HDT)	1,8 MPa	ISO 75-1-2	°C	155
	0,45 MPa			160

## CHARACTERISTICS

**OLEXENE PP10 G45 CA** is distinguished by high mechanical stiffness, heat stability and easy processing.

## APPLICATIONS

**OLEXENE PP10 G45 CA** is used in a wide range of applications such as housings, automotive, electrical and machinery injection moulded parts.

## FORMAT AND STORAGE

Typical formats are Big Bag, octavin and 25kg bags.

The product should be stored in a dry place, protected from light not about 30°C.

## NOTE

All recommendations are based on knowledge and experience; The values have been established on standardized tests. The figures should be regarded as guide values and not as binding minimum values. As many factors may affect processing or applications, we recommend that customers make their own tests to determine the suitability of a product for its particular use.