PPO

Polyphenylene oxide

DESIGNATION	CHEMICAL NAME	TYPE
PPO	Polyphenylene oxide	Thermoplastic

General description

The material has good mechanical properties and withstands high temperatures.

Processing

PPO is available as semi-finished products in the form of sheets, rods and hollow rods.

The material is suitable for machining and thermoforming.

Applications

Vacuum-formed impact-resistant and heat-resistant articles.

Machined parts in, for example, washing machines and pumps.

Special features

Noryl is the most common trade name.

Rarely used because of a limited range, poor availability and high price.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	1.06
Tensile strength	DIN 53455	N/mm^2	45
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	2400
Elongation at break	DIN 53455	%	50
Service temperature, continuous	-	°C	-30/+100
Thermal expansion	ASTM D 896	mm/m/°C	0.07
Flammability	UL 94		V0

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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