

POM white FDA

Copolymer, based on methylenoxide - Polyoxymethelene / Polyacetal / POM-C

Mechanical, thermal, electrical and general properties

Material code: 0700G

Mechanical properties	Standard	Unit	
Yield stress / stress at break	DIN EN ISO 527-2	MPa	70
Elongation at break	DIN EN ISO 527-2	%	35
Tensile modulus of elasticity	DIN EN ISO 527-2	MPa	3000
Charpy impact strenght	DIN EN ISO 179	kJ/m ²	>140
Thermal properties			
		Unit	
Coefficient of thermal expansion		1/K * 10 ⁶	120
Upper service temperature, short term		°C	140
Upper service temperature, continuous		°C	100
Flammability according to UL94	3 mm		HB
Electrical properties			
	Standard	Unit	
Dielectric strength	DIN EN IEC 60243	kV/mm	20
Volume resistivity	DIN EN 62631	Ω*cm	>10 ¹⁴
Surface resistivity	DIN EN 62631	Ω	>10 ¹³
General properties			
	Standard	Unit	
Density	DIN 1183	g/cm ³	1,41
Waterabsorption, saturation in water at 23°C	DIN EN ISO 62	%	0,8

Foodstuff applications:

(EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004

(EC) No 2023/2006 of December 206 on good manufacturing practice (GMP)

(EU) No 10/2011 of the Commission of 14 January 2011

FDA regulation 21 CFR 177.2470