

ÖZLON® is a high-performance cast polyamide known for its exceptional durability and versatility across various industries. It combines high mechanical strength, rigidity, and hardness with excellent resistance to creep, wear, fatigue, and heat aging. Additionally, ÖZLON® offers good sliding properties and machinability, as well as effective electrical insulation and resistance to gamma and x-ray radiation. Its compliance with global standards and the Turkish Food Codex further enhances its suitability for applications in the food industry.

		Test Methods	Units	Indicative Values
Miscellaneous	Colour			Natural
	Density	ISO 1183-1	g/cm ³	1,14
	Water Absorption (Method 1, 23°C-168 hrs)	ISO 62	%	1,8
	Dynamic Coefficient of Friction	ISO 7148-2		0,38
	Ash Content (Method A, 950°C±50°C)	ISO 3451-4	%	0,2
Mechanical Properties	Tensile Strength at Yield	ISO 527-2	MPa	72,5
	Elongation at Yield	ISO 527-2	%	36
	Tensile Strength at Break	ISO 527-2	MPa	68,2
	Elongation at Break	ISO 527-2	%	53
	Tensile Modulus of Elasticity	ISO 527-2	MPa	3400
	Hardness (Shore D)	ISO 868		80
	Charpy Impact Strength (1eU, 15 J)	ISO 179-1	kJ/m ²	No Break
	Compressive Strength (at 1 / 2 / 5 % nominal strain)	ISO 604	MPa	26-70-109
Thermal Properties	Continuous Allowable Service Temperature		°C	140
	Min. Service Temperature		°C	-40
	Melting Point	ISO 11357-3	°C	221
	Vicat Softening Temperature	ISO 306	°C	183
	Heat Deflection Temperature	ISO 75-1	°C	78,1
Electrical Properties	Electric Strength	IEC 60243-1	kV/mm	25
	Volume Resistivity	IEC 62631-3-1	Ohm.cm	10 ¹⁴
	Dielectric Constant	IEC 62631-2-1		3,7
	Dissipation Factor	IEC 62631-2-1		0,03

This table aids in material selection but provides non-guaranteed, reference-only data.