Technical Data Sheet

POM C ESD 60 PLUS

Polyoxymethylene Copolymer

General Properties	Test Method	Unit	Value
Density	DIN EN ISO 1183-1	g / cm³	1.44
Moisture Absorption	DIN EN ISO 62	%	0.20
Flammability (thickness 3 mm / 6 mm)	UL 94	---	HB / HB
Mechanical Properties			
Tensile Stress at Yield	DIN EN ISO 527	MPa	45
Elongation at Break	DIN EN ISO 527	%	10
Tensile Modulus	DIN EN ISO 527	MPa	3700
Notched Impact Strength	DIN EN ISO 179	kJ / m²	2.5
Shore Hardness	DIN EN ISO 868	Scale D	78
Ball Indentation Hardness	DIN EN ISO 2039-1	MPa	180
Thermal Properties			
Melting Temperature	ISO 11357-3	°C	165
Service Temperature, Long-Term	Average value	°C	-20 / +100
Service Temperature, Short-Term (max.)	Average value	°C	140
Heat Deflection Temperature	DIN EN ISO 75, Verf. A, HDT	°C	110
Electrical Properties			
Surface Resistivity	DIN EN 62631-3-2	Ohm	<= 10^4

The maximum short-term service temperature applies only to applications involving very low mechanical loads over a period of a few hours. The maximum long-term service temperature is based on the thermal ageing of plastics caused by oxidation, which results in a reduction in mechanical properties. The temperatures specified are those which, after a period of at least 5,000 hours, cause a 50% reduction in tensile strength (measured at room temperature) compared with the initial value. This value does not provide information about the mechanical strength of the material at high operating temperatures. In thick-walled components, oxidation at high temperatures affects only the surface layer, which can be better protected by adding antioxidants. The core of the components remains undamaged in all cases. The minimum service temperature is primarily determined by any impact or shock loads occurring during use. The values specified refer to low impact stress. The electrical characteristic values were measured on natural-coloured, dry material. Other colours (particularly black) or damp material may result in significant changes to the electrical characteristic values. The values specified are average values verified by continuous statistical testing. They comply with the requirements of DIN EN 15860. They are provided solely for information about our products and are intended to assist in material selection. They do not constitute a legally binding guarantee of specific properties or suitability for particular applications. Since the properties also depend on the dimensions of the semi-finished products and the degree of crystallisation (e.g. nucleation by pigments), the actual property values of a specific product may differ slightly from the values stated.

KTK Kunststofftechnik Vertriebs GmbH
Industriestr. 16 • 82110 Germering • Tel. +49(89) 8407970 • Fax +49(89) 84058896 • info@ktkgmbh.de • www.ktkgmbh.de
Stand:10.03.2025