

## POM-C (Polyacetal Copolymer)

### Material Specification (Typical Properties)

#### Physical

Property	Method	Units	Specification
Specific Gravity	---	g/cm <sup>3</sup>	1.41
Water Absorption	DIN EN ISO 62	%	0.05 / 0.1

#### Mechanical

Property	Method	Units	Specification
Modulus of elasticity (tensile test)	DIN EN ISO 527-2	MPa	2900
Tensile strength	DIN EN ISO 527-2	MPa	67
Tensile strength at yield	DIN EN ISO 527-2	MPa	69
Elongation at yield	DIN EN ISO 527-2	%	7
Elongation at break	DIN EN ISO 527-2	%	18
Flexural strength	DIN EN ISO 178	MPa	93
Modulus of elasticity (flexural test)	DIN EN ISO 178	MPa	3700
Compression strength	EN ISO 604	MPa	500
Compression modulus	EN ISO 604	MPa	2000
Impact strength (Charpy)	DIN EN ISO 179-1eU	kJ/m <sup>2</sup>	102
Ball indentation hardness	ISO 2039-1	MPa	163

#### Electrical

Property	Method	Units	Specification
Specific surface resistance	DIN IEC 60093	Ω	10 <sup>16</sup>
Specific volume resistance	DIN IEC 60093	Ω*cm	10 <sup>17</sup>

#### Thermal

Property	Method	Units	Specification
Glass transition temperature	DIN 53765	°C	-60
Service temperature	---	°C	100-140
Melting temperature	DIN 53765	°C	166
Thermal expansion (CLTE)	DIN EN ISO 11359-1;2	10 <sup>-5</sup> K <sup>-1</sup>	13
Thermal expansion (CLTE)	DIN EN ISO 11359-1;2	10 <sup>-5</sup> K <sup>-1</sup>	14
Specific heat	ISO 22007-4:2008	J/(g*K)	1.4
Thermal conductivity	ISO 22007-4:2008	W/(K*m)	0.39