

POM | KEPITAL ED-10 | Conductive and anti-static grade

- An anti-static high-viscosity grade for general extrusion molding (rods, plates, sheets, etc.)
- Suitable for applications requiring surface resistivity $10E9 \Omega$
- Cautions
 - Surface resistivity will change with extrusion conditions: die design, pressure, speed, etc.
 - In addition, color shade will change with product thickness, retention time, and annealing conditions.

General information	Test Standard	Unit	Value
Polymer abbreviation	ISO 1043	-	POM
Physical properties	Test Standard	Unit	Value
Water absorption(23 °C, 50 %RH)	ISO 62	%	-
Density	ISO 1183	g/cm ³	1.32
Melt flow rate	ISO 1133	g/10min	1
Thermal properties	Test Standard	Unit	Value
Heat deflection temperature (1.8 MPa)	ISO 75	°C	70
Flammability	UL 94	-	HB
Coefficient of linear thermal expansion	ISO 11359	X 10 ⁻⁵ /°C	-
Melting point	ISO 11357	°C	
Mechanical properties	Test Standard	Unit	Value
Tensile modulus	ISO 527	MPa	
Tensile stress	ISO 527	MPa	43
Tensile strain at yield	ISO 527	%	18
Nominal strain at break	ISO 527	%	90
Flexural strength	ISO 178	MPa	50
Flexural modulus	ISO 178	MPa	1,350
Charpy impact strength(Notched) @ 23°C	ISO 179/1eA	kJ/m ²	16
Charpy impact strength(Notched) @ -30°C	ISO 179/1eA	kJ/m ²	
Electrical properties	Test Standard	Unit	Value
Surface resistivity	IEC 60093	Ω	1×10^9
Volume resistivity	IEC 60093	$\Omega \cdot \text{cm}$	-
Dielectric strength	IEC 60243-1	kV/mm	-
Other	Test Standard	Unit	Value

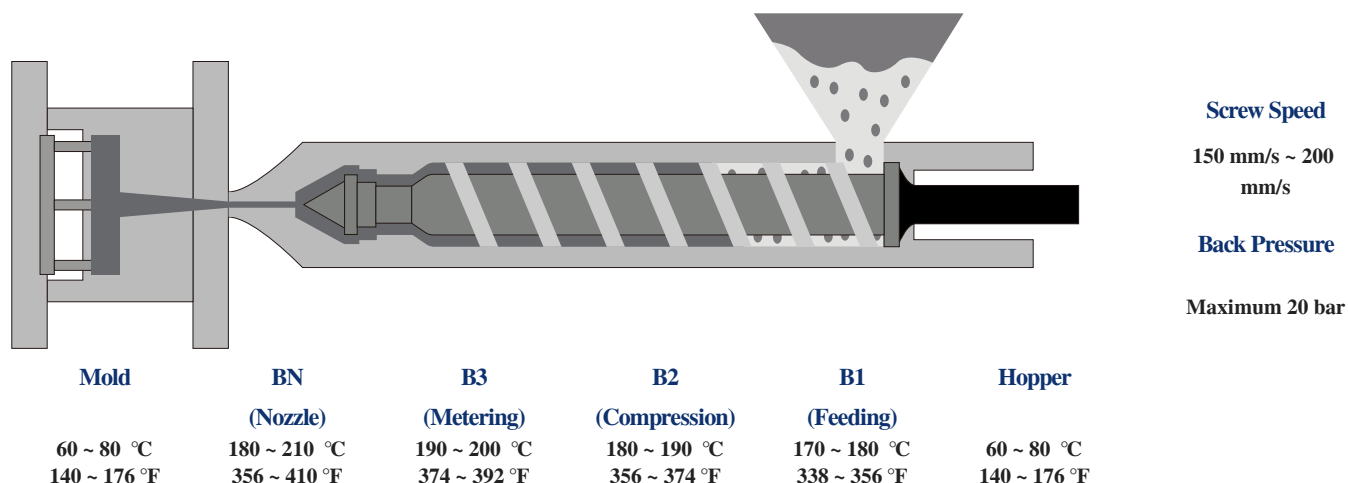
Mold shrinkage (flow direction, t = 2 mm)

ISO 294-4

%

1.6

Injection molding condition



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