

KOCETAL[®] K100

Polyacetal, General Purpose, Extrusion & Injection molding, High-Viscosity

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ISO 1183	g/cm ³	1.41
Melt Flow Index	190 °C, 2.16 kg	ISO 1133	g/10min	3.0
Melt Volume Rate	190 °C, 2.16 kg	ISO 1133	cm ³ /10min	2.6
Shrinkage		ISO 294-4	%	2.0-2.4
Water Absorption	23 °C, 50% RH	ISO 62	%	0.22
Mechanical				
Tensile Strength at Yield (4.0mm)	50 mm/min	ISO 527	MPa	60
Elongation at Break (4.0mm)	50 mm/min	ISO 527	%	44
Strain at Yield, (4.0mm)	50 mm/min	ISO 527	%	13
Flexural Strength (4.0mm)	2 mm/min	ISO 178	MPa	80
Flexural Modulus (4.0mm)	2 mm/min	ISO 178	MPa	2,450
Charpy Impact Strength, (4.0mm)		ISO 179/1eA		
(Notched)	23 °C		kJ/m ²	9.0
	-30 °C		kJ/m ²	-
Rockwell Hardness	M scale	ISO 2039-2	-	78
Thermal				
Melting Point	20 °C/min	ISO 11357-1	°C	167
Heat Deflection Temperature	1.8 MPa	ISO 75	°C	91
Coefficient of linear expansion		ISO 11359	× E ⁻⁶ /K	-
Flammability (0.8mm)		UL94	Class	HB
Electrical				
Dielectric Strength		IEC 60243	kV/mm	-
Volume Resistivity		IEC 60093	Ω·cm	-
Surface Resistivity		IEC 60093	Ω	-
※ (Test specimen Thickness)				



Processing Guide (Injection Molding)

Drying Temperature(°C)	80 ~ 120			
Drying Time(hr)	3 ~ 5			
Limitation of Processing Temperature(°C)	220			
Processing Moisture Contents(%)	≤ 0.1			
Cylinder Temperature(°C)	Nozzle	Front	Middle	Rear
	180 ~ 200	180 ~ 200	170 ~ 190	160 ~ 180
Mold Temperature(°C)	60 ~ 80			

