

KOCETAL® K100HS

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® K100HS is suitable for injection moldings with high-strength and improved processing.

General Information			
Features	High strength		
	Workability, good		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	2.0	%	ISO 294-4
Flow	2.5	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.59	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	93		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	66.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	40	%	ISO 527-2
Flexural Modulus (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature	172	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms · cm	IEC 60093
Dielectric Strength	19	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	

Drying Time	3.0	hr
Rear Temperature	180	°C
Middle Temperature	190	°C
Front Temperature	190	°C
Nozzle Temperature	200	°C
Processing (Melt) Temp	< 220	°C
Mold Temperature	60 - 80	°C

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