

KOCETAL® K700

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

Kocetal K700 is a very easy-flow grade for superior mold ability in multi-cavity and small thin-section parts.

General Information			
UL YellowCard	E190675-238635		
Features	Good Flow		
	Good Moldability		
Uses	Thin-walled Parts		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	g/10 min	ASTM D1238
Water Absorption (Equilibrium, 23°C, 60%RH)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	58.0	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	30	%	ASTM D638
Flexural Modulus (23°C)	2260	MPa	ASTM D790
Flexural Strength (23°C)	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	110	°C	
Vicat Softening Temperature	162	°C	ASTM D1525
Melting Temperature ¹	166	°C	ASTM D3418
CLTE - Flow	9.0E-5 to 1.1E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149

Dielectric Constant	3.70		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Arc Resistance	> 200	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	10°C/min		

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