

KOCETAL® GF706

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

Kocetal GF706 is glass fiber reinforced grade for high strength and stiffness.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	High Stiffness		
	High Strength		
	Salt Water/Spray Resistant		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50	%	ASTM D955
Water Absorption (Equilibrium, 60% RH)	0.20	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	150	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	6.0	%	ASTM D638
Flexural Modulus (23°C)	8200	MPa	ASTM D790
Flexural Strength (23°C)	230	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	165	°C	
1.8 MPa, Unannealed	164	°C	
Peak Melting Temperature	166	°C	ASTM D1525
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant	3.70		ASTM D2520
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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