

KOCETAL® GF102

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® GF102 is an Acetal (POM) Copolymer product filled with glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

Flame Rated

High Stiffness

High Strength

General Information			
Filler / Reinforcement	Glass Fiber		
Features	High Stiffness		
	High Strength		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.90	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	95.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	7.0	%	ASTM D638
Flexural Modulus (23°C)	4500	MPa	ASTM D790
Flexural Strength (23°C)	140	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	164	°C	
1.8 MPa, Unannealed	160	°C	
Melting Temperature	166	°C	ASTM D1525
CLTE - Flow	6.0E-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 D150

Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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