

KOCETAL® GF705BK

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® GF705BK 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	1.59	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 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)	128	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	6.0	%	ASTM D638
Flexural Modulus (23°C)	7700	MPa	ASTM D790
Flexural Strength (23°C)	198	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	52	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	163	°C	
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 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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