

KOCETAL® GF705

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

Kocetal GF705 is glass fiber reinforced grade for high strength and stiffness.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Stiffness		
	High Strength		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
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)	10	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 (Yield, 23°C)	147	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	7.0	%	ASTM D638
Flexural Modulus (23°C)	7800	MPa	ASTM D790
Flexural Strength (23°C)	220	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	164	°C	
1.8 MPa, Unannealed	163	°C	
Melting Temperature	166	°C	
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	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Rear Temperature	170 to 190	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 220	°C	
Nozzle Temperature	200 to 220	°C	
Processing (Melt) Temp	< 230	°C	
Mold Temperature	70.0 to 120	°C	
Injection Pressure	68.6 to 118	MPa	
Holding Pressure	98.1	MPa	
Back Pressure	1.96 to 4.90	MPa	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

