KOLON PLASTICS, INC.

PRODUCT INFORMATION

Conductive Grade

KOCETAL® CF704

Kocetal CF704 is carbon fiber reinforced grade for high stiffness and electrical conductivity.

Property	Test Method	Units	Value
Physical			
Melt Index	ASTM D1238	g/10min	6.0
Specific Gravity	ASTM D792	-	1.46
Shrinkage	ASTM D955	%	0.5
Water Absorption 23℃, Equilibrium 60%RH	ASTM D570	%	0.22
Thermal			
Melting Point	ASTM D1525	℃	166
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm^2)		℃	165
HDT/A 1.82 MPa (18.6 kg/cm^2)		℃	162
Vicat Softening Temperature	ASTM D1525	℃	
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10^{-5}cm/cm·℃	3
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23℃	ASTM D638	MPa (kg/cm^2)	120 (1225)
Tensile Elongation 23℃	ASTM D638	%	4
Flexural Strength 23℃	ASTM D790	MPa (kg/cm^2)	175 (1785)
Flexural Modulus 23℃	ASTM D790	MPa (kg/cm^2)	13,700 (140,000)
Notched Izod Impact Strength 23℃	ASTM D256	J/m (kg·cm/cm)	40 (4.1)
Rockwell Hardness M scale	ASTM D785	-	95
Electrical			
Surface Resistivity	ASTM D257	× 10^3 Ω	1
Volume Resistivity	ASTM D257	× 10^2 Ω·cm	1
Dielectric Strength	ASTM D149	kV/mm	
Dielectric Constant	ASTM D150	-	
Dielectric Dissiparation FactorConstant 10^6 Hz	ASTM D150	-	

The information provided in this data sheet is based on our present state of knowledge and is estimated by KOLON PLASTICS, Inc. This information should not be used as guaranteeing specification limits. KOLON PLASTICS, Inc. make no warranty and liability in connection with any use of this information.

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