

PRODUCT INFORMATION**Conductive Grade****KOCETAL[®] CF302BK**

Kocetal CF302BK is carbon fiber reinforced grade for high stiffness and electrical conductivity.

Property	Test Method	Units	Value
Physical			
Melt Index	ASTM D1238	g/10min	5.5
Specific Gravity	ASTM D792	-	1.43
Shrinkage	ASTM D955	%	0.9
Water Absorption 23°C, Equilibrium 60%RH	ASTM D570	%	0.22
Thermal			
Melting Point	ASTM D1525	°C	166
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	164
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	160
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁵ cm/cm·°C	6
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23°C	ASTM D638	MPa (kg/cm ²)	105 (1,030)
Tensile Elongation 23°C	ASTM D638	%	2.5
Flexural Strength 23°C	ASTM D790	MPa (kg/cm ²)	156 (1,530)
Flexural Modulus 23°C	ASTM D790	MPa (kg/cm ²)	9,780 (95,900)
Notched Izod Impact Strength 23°C	ASTM D256	J/m (kg·cm/cm)	3.0 (0.29)
Rockwell Hardness M scale	ASTM D785	-	87
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 Dissipation FactorConstant 10 ⁶ Hz	ASTM D150	-	

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