

PRODUCT INFORMATION

Reinforced Grade

KOCETAL[®] GF705BK

Kocetal GF705BK is glass fiber reinforced grade for high strength and stiffness.

Property	Test Method	Units	Value
Physical			
Melt Index	ASTM D1238	g/10min	11.0
Specific Gravity	ASTM D792	-	1.59
Shrinkage	ASTM D955	%	0.5
Water Absorption 23°C, Equilibrium 60%RH	ASTM D570	%	0.2
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	163
Vicat Softening Temperature	ASTM D1525	°C	
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁵ cm/cm·°C	2.5
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23°C	ASTM D638	MPa (kg/cm ²)	128 (1300)
Tensile Elongation 23°C	ASTM D638	%	6
Flexural Strength 23°C	ASTM D790	MPa (kg/cm ²)	198 (2000)
Flexural Modulus 23°C	ASTM D790	MPa (kg/cm ²)	7,700 (78,000)
Notched Izod Impact Strength 23°C	ASTM D256	J/m (kg cm/cm)	52 (5.3)
Rockwell Hardness M scale	ASTM D785	-	90
Electrical			
Surface Resistivity	ASTM D257	× 10 ¹⁶ Ω	1
Volume Resistivity	ASTM D257	× 10 ¹⁴ Ω cm	1
Dielectric Strength	ASTM D149	kV/mm	19
Dielectric Constant	ASTM D150	-	3.7
Dielectric Dissipation FactorConstant 10 ⁶ Hz	ASTM D150	-	0.006

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