

Glass Fiber Reinforced, Flame Retardant Grade

KOPA[®] KN1322G5V0

Polyamide 6 Compound resin,
Hallogen-free flame retardant Grade

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.22
Shrinkage	ASTM D955	%	0.9-1.1
Water Absorption 23 °C , Equilibrium 60%RH	ASTM D570	%	1
Thermal			
Melting Point	ASTM D1525	°C	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	200
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	175
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.5
Flammability	UL 94		V2
Mechanical			
Tensile Strength 23 °C	ASTM D638	MPa (kg/cm ²)	79(800)
Tensile Elongation 23 °C	ASTM D638	%	7
Flexural Strength 23 °C	ASTM D790	MPa (kg/cm ²)	132(1350)
Flexural Modulus 23 °C	ASTM D790	MPa (kg/cm ²)	3874(39500)
Notched Izod Impact Strength 23 °C	ASTM D256	J/m (kg·cm/cm)	49(5)
Rockwell Hardness R scale	ASTM D785	g/cc	120
Electrical			
Arc Resistance	ASTM D495	sec	120
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.5
Dielectric Strength	ASTM D149	KV/mm	20

