

Flame Retardant Grade

KOPA[®] KN1322V0HS

Polyamide 6 Compound resin,
Halogen-free flame retardant, Heat Resistance Grade

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.16
Shrinkage	ASTM D955	%	1.4-1.8
Water Absorption 23 °C , Equilibrium 60%RH	ASTM D570	%	1.4
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	190
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	75
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.9
Flammability	UL 94		V2
Mechanical			
Tensile Strength 23 °C	ASTM D638	MPa (kg/cm ²)	86(880)
Tensile Elongation 23 °C	ASTM D638	%	13
Flexural Strength 23 °C	ASTM D790	MPa (kg/cm ²)	128(1300)
Flexural Modulus 23 °C	ASTM D790	MPa (kg/cm ²)	3040(31000)
Notched Izod Impact Strength 23 °C	ASTM D256	J/m (kg·cm/cm)	59(6)
Rockwell Hardness R scale	ASTM D785	g/cc	120
Electrical			
Arc Resistance	ASTM D495	sec	115
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.2
Dielectric Strength	ASTM D149	KV/mm	20

