

PRODUCT INFORMATION

Standard Grade

KOPA[®] KN111BL

Polyamide 6 Compound resin, Black grade

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.14
Shrinkage	ASTM D955	%	1.3~1.5
Water Absorption 23°C, Equilibrium 60%RH	ASTM D570	%	1.8
Thermal			
Melting Point	ASTM D3418	°C	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	180
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	65
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	8
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23°C	ASTM D638	kg/cm ²	830
Tensile Elongation 23°C	ASTM D638	%	35
Flexural Strength 23°C	ASTM D790	kg/cm ²	1,250
Flexural Modulus 23°C	ASTM D790	kg/cm ²	28,000
Notched Izod Impact Strength 23°C	ASTM D256	kg cm/cm	7.5
Rockwell Hardness R scale	ASTM D785	-	120
Electrical			
Arc Resistance	ASTM D495	sec	120
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.4
Dielectric Strength	ASTM D149	KV/mm	20

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KOLON PLASTICS, Inc.

KOLON TOWER, 1-23, BYULYANG-DONG, GWACHEON-CITY GYUNG GI-DO, KOREA

More information : www.kolonplastics.com/enghome