

KOPLA PC KBP1000

Polybutylene Terephthalate

KOPLA Co., Ltd.

Message:

KOPLA PC KBP1000 is a Polybutylene Terephthalate (PBT) material. It is available in Asia Pacific for injection molding.

Important attributes of KOPLA PC KBP1000 are:

Flame Rated

Low Viscosity

Typical applications include:

Electrical/Electronic Applications

Engineering/Industrial Parts

General Information			
Features	Low Viscosity		
Uses	Electrical/Electronic Applications		
	Valves/Valve Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.7 to 2.3	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	53.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 100	%	ASTM D638
Flexural Modulus (23°C)	2350	MPa	ASTM D790
Flexural Strength (23°C)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	155	°C	
1.8 MPa, Unannealed	60.0	°C	
Melting Temperature	222	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257
Dielectric Strength	28	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.20		ASTM D150
Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

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