

**KOPLA® KDT1020**

PA66-MF20

KOPLA CO., LTD

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.0065	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0075	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Charpy impact strength, +23°C	16	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	5.5	kJ/m <sup>2</sup>	ISO 179/1eA
<b>ASTM Data</b>			
Tensile Modulus	4980	MPa	ASTM D 638
Tensile Strength	80	MPa	ASTM D 638
Flexural Modulus	4800	MPa	ASTM D 790
Flexural Strength	130	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	65	E-6/K	ASTM D 696
DTUL @ 66 psi	245	°C	ASTM D 648
DTUL @ 264 psi	210	°C	ASTM D 648
Melting Temperature	260	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	32	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.02	-	ASTM D 150
Dielectric Constant, 1 MHz	3.7	-	ASTM D 150
Volume Resistivity	1E14	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.5	%	ASTM D 570
Density	1280	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Features**

Low Warpage

**Applications**

Automotive, Electrical and Electronical

**Regional Availability**

North America, Asia Pacific