

KOPLA® KDT1040

PA66-MF40

KOPLA CO., LTD

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.007	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Charpy impact strength, +23°C	12	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Modulus	5600	MPa	ASTM D 638
Tensile Strength	95	MPa	ASTM D 638
Flexural Modulus	5500	MPa	ASTM D 790
Flexural Strength	145	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Thermal properties			
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	60	E-6/K	ASTM D 696
DTUL @ 66 psi	245	°C	ASTM D 648
DTUL @ 264 psi	220	°C	ASTM D 648
Melting Temperature	260	°C	ASTM D 3418
Electrical properties			
ASTM Data			
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			
Water Absorption, 24hr	1	%	ASTM D 570
Density	1460	kg/m ³	ASTM D 792

Characteristics**Features**

Low Warpage

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Asia Pacific