

Carbotex K-50

PC

Kotec Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	9	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data	Value	Unit	Test Standard
Tensile Strength at Break	63	MPa	ASTM D 638
Elongation at Break	120	%	ASTM D 638
Flexural Modulus	2160	MPa	ASTM D 790
Flexural Strength	85	MPa	ASTM D 790
Izod Impact notched, 1/8 in	830	J/m	ASTM D 256
Thermal properties			
ASTM Data	Value	Unit	Test Standard
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	1.6	mm	-
DTUL @ 264 psi	134	°C	ASTM D 648
Electrical properties			
ASTM Data	Value	Unit	Test Standard
Dielectric Strength, Short Time	20	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.009	-	ASTM D 150
Dielectric Constant, 1 MHz	2.9	-	ASTM D 150
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257
Arc Resistance	110	s	ASTM D 495
Optical properties			
ASTM Data	Value	Unit	Test Standard
Haze	1	%	ASTM D 1003
Light Transmittance	89	%	ASTM D 1003
Index of Refraction	1.58	-	ASTM D 542
Other properties			
Value	Unit	Test Standard	
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Features

Low Odor

Applications

General Purpose

Regional Availability

North America, Europe, Near East/Africa