Kotex/Carbotex Polycarbonate

KOTEC

Grade: K-20   General purpose injection moulding
Colour: Natural   High flow

Properties	Standards	Test conditions	Units	Typical values
Mechanical Properties				
Izod impact strength	ASTM D256	23℃ V-notched 1/8"	J/m	740
			kgf·cm/cm	75
			ft·lbf/in	14
Tensile strength at break	ASTM D638	---	MPa	63
			kgf/cm^2	640
			lbf/in^2	9100
Tensile elongation at break	ASTM D638	---	%	120
Flexural strength	ASTM D790	---	MPa	85
			kgf/cm^2	870
			lbf/in^2	12400
Flexural modulus	ASTM D790	---	MPa	2160
			kgf/cm^2	22000
			lbf/in^2	313000
Thermal Properties				
Melt flow rate	ASTM D1238	300℃, 1.2kgf	g/10min	20
Heat deflection temperature	ASTM D648	18.6 kgf/cm^2	℃	126
			℉	259
Electrical Properties				
Dielectric breakdown strength	ASTM D149	1.6mm	kV/mm	20
Dielectrical constant	ASTM D150	10^6 Hz	---	2.9
Dissipation factor	ASTM D150	10^6 Hz	---	0.009
Arc resistance	ASTM D495	---	Sec.	110
Surface resistivity	ASTM D257	---	Ω·cm	10^{16}
Optical Properties				
Light transmittance	ASTM D1003	3 mm	%	89
Light refractive	ASTM D542	---	---	1.58
Haze	ASTM D1003	3 mm	%	< 1
Other Properties				
Specific gravity	ASTM D792	---	---	1.2
Water absorption	ASTM D570	24 hrs at 23℃ water immersion	%	≦ 0.2
Mould shrinkage	ASTM D955	---	%	0.5～0.7
Flammability	UL94	---	---	V-2 @ 0.4mm