

Kotex/Carbotex Polycarbonate



Grade: KLS-1920YG, BG, B

Phosphorescent Polycarbonate

Colour: Yellow Green, Blue Green, Blue

High flow

Properties	Standards	Test conditions	Units	Typical values
Mechanical Properties				
Izod impact strength	ASTM D256	23°C V-notched 1/8"	J/m	107
			kgf·cm/cm	11
Tensile strength at break	ASTM D638	---	MPa	51
			kgf/cm ²	500
Tensile elongation at break	ASTM D638	---	%	—
Flexural strength	ASTM D790	---	MPa	102
			kgf/cm ²	1000
Flexural modulus	ASTM D790	---	MPa	2550
			kgf/cm ²	25000
Thermal Properties				
Melt flow rate	ASTM D1238	300°C, 1.2kgf	g/10min	23
Heat deflection temperature	ASTM D648	18.6 kgf/cm ²	°C	125
			°F	257
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
Volume resistivity	ASTM D257	---	Ω·cm	10 ¹⁶
Other Properties				
Specific gravity	ASTM D792	---	---	1.27
Water absorption	ASTM D570	24 hrs at 23°C water immersion	%	≤ 0.2
Mould shrinkage	ASTM D955	---	%	0.5~0.7
Flammability	UL94	1.6 mm	---	(Equivalent V-2)

To our best knowledge, the values contained herein are typical of uncoloured PC and given in good faith. They may be affected by colorants, other additives, the design of a mould/die, moulding techniques applied, the size and shape of a moulded article. In view of these factors, the properties do not relieve customers from carrying out their own investigations and tests. It is entirely the customer's responsibility to determine the suitability of material and grade used for their intended application. No warranty, express or implied is made nor is liability accepted in connection with any of the information provided. We reserve the right to make additions, deletions, or modifications to the information at any time without prior notification. Kotec Corporation (30.5.2006)