Kotex/Carbotex Polycarbonate



Grade: K-40MRA Colour: Natural		General purpose injection moulding Medium viscosity			
Properties	Standards	Test conditions	Units	Typical values	
Mechanical Properties					
Izod impact strength		23℃ V-notched 1/8"	J/m	830	
	ASTM D256		kgf•cm/cm	85	
			ft•lbf/in	16	
Tensile strength at break			MPa	63	
	ASTM D638		kgf/cm ²	640	
			lbf/in ²	9100	
Tensile elongation at break	ASTM D638		%	120	
Flexural strength			MPa	85	
	ASTM D790		kgf/cm ²	870	
			lbf/in ²	12400	
Flexural modulus			MPa	2160	
	ASTM D790		kgf/cm ²	22000	
			lbf/in ²	313000	
Thermal Properties					
Melt flow rate	ASTM D1238	300°C, 1.2kgf	g/10min	12	
Heat deflection temperature	ASTM D648	18.6 kgf/cm^2	°C	133	
	ASTW D040		۴	271	
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 resistively	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°C water immersion	%	≦ 0.2	
Mould shrinkage	ASTM D955		%	0.5~0.7	
Flammability	UL94			V-2 @ 1.6mm	

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)