

WONDERLITE® PC-6710

Polycarbonate
CHI MEI CORPORATION

Message:
PC, Flame Retardant, available in transparent

General Information			
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	61.8	MPa	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	2160	MPa	ASTM D790
Flexural Strength ⁴	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 0.125 mm)	830	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (1.8 MPa, Unannealed)	125	°C	ASTM D648
Vicat Softening Temperature	148	°C	ASTM D1525 ⁶
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (2000 µm)	> 87.0	%	ASTM D1003
Haze (2000 µm)	< 1.2	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Rear Temperature	280 to 310	°C	
Middle Temperature	280 to 310	°C	
Front Temperature	280 to 310	°C	
Mold Temperature	70.0 to 100	°C	

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	1.3 mm/min
4.	1.3 mm/min
5.	120°C/hr
6.	Rate A (50°C/h), Loading 2 (50 N)

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