



WONDERLITE® PC-6710

CHI MEI CORPORATION - Polycarbonate

Monday, November 4, 2019

General Information

Product Description

PC, Flame Retardant, available in transparent

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	8960	psi	ASTM D638
Tensile Elongation ² (Break)	100	%	ASTM D638
Flexural Modulus ³	313000	psi	ASTM D790
Flexural Strength ³	12800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.00492 in)	16	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 73°F)	123		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ 264 psi, Unannealed	257	°F	ASTM D648
Vicat Softening Temperature	298	°F	ASTM D1525 ⁵
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (78.7 mil)	> 87.0	%	ASTM D1003
Haze (78.7 mil)	< 1.20	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr
Rear Temperature	536 to 590	°F
Middle Temperature	536 to 590	°F
Front Temperature	536 to 590	°F

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Injection	Nominal Value	Unit
Mold Temperature	158 to 212	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 0.051 in/min

⁴ 120°C/hr

⁵ Rate A (50°C/h), Loading 2 (50 N)