

HOPELEX TC-8001A

Polycarbonate

Lotte Chemical Corporation

Message:

Thermal conductive, mineral filled, medium viscosity, easy mold release

Non-brominated, non-chlorinated flame retardant

Available in opaque color only

General Information			
Filler / Reinforcement	Mineral		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Mold Release		
	Medium Viscosity		
	Thermally Conductive		
Uses	Electrical Housing		
Appearance	Opaque		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	42.2	MPa	ASTM D638
Flexural Modulus ²	2550	MPa	ASTM D790
Flexural Strength ³ (Yield)	54.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	140	°C	ASTM D648
Thermal Conductivity ⁴	> 0.60	W/m/K	
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Max Regrind	20	%	
Hopper Temperature	60.0 to 80.0	°C	

Rear Temperature	290 to 310	°C
Middle Temperature	280 to 300	°C
Front Temperature	270 to 290	°C
Nozzle Temperature	280 to 300	°C
Processing (Melt) Temp	290 to 310	°C
Mold Temperature	60.0 to 90.0	°C

NOTE		
1.	50 mm/min	
2.	10 mm/min	
3.	10 mm/min	
4.	Hot Wire Method	

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