

LOTTE CHEMICAL

TC-8001G

Polycarbonate compound resin

General Information

Description

Thermal conductive, 20% graphite filled
Medium viscosity, easy mold release
Available in opaque color only

Applications

Heat sinks, cooling units, electric/electronic housings, etc.

Typical properties¹

	Test Method	Typical value	Unit
Physical			
Melt Flow Index , 300 °C, 1.2 kg	ASTM D1238	9	g/10min
Specific Gravity	ASTM D792	1.28	
Mold Shrinkage	HPC method	0.4 ~ 0.6	%
Mechanical			
Tensile Strength , yield, 50 mm/min	ASTM D638	470	kg _f /cm ²
Tensile Elongation , break, 50 mm/min	ASTM D638	-	%
Flexural Strength , yield, 10 mm/min	ASTM D790	670	kg _f /cm ²
Flexural Modulus , 10 mm/min	ASTM D790	54,000	kg _f /cm ²
IZOD Impact Strength , notched, 23 °C, 1/8"	ASTM D256	6	kg _f ·cm/cm
notched, -30 °C, 1/8"	ASTM D256	-	kg _f ·cm/cm
Thermal			
Thermal conductivity	Hot-wire method	0.7	W/m·K
Heat Distortion Temp. 4.6 kg _f /cm ²	ASTM D648	-	°C
18.6 kg _f /cm ²	ASTM D648	140	°C
Vicat Softening Temp. Rate B/50	ASTM D1525	-	°C

Notes

ISO 9001, 14001, /TS 16949

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

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Processing guides¹

	Typical value	Unit
Drying condition		
Drying temperature	120	°C
Drying time	4	hr
Maximum moisture content	0.02	%
Injection molding		
Melt temperature	290 ~ 310	°C
Nozzle temperature	280 ~ 300	°C
Barrel	Rear zone	290 ~ 310
	Middle zone	280 ~ 300
	Front zone	270 ~ 290
Hopper temperature	60 ~ 80	°C
Mold temperature	60 ~ 90	°C



Recycling

Sprues and runners can be reground with virgin resin within the ratio of 20%. Care must be taken to ensure that the regrind is free from impurities and regrind should not be used in applications where impact performance and/or agency compliance are required.

Notes

ISO 9001, 14001, /TS 16949

¹ Processing guides : Typical processing parameters are noted. Actual processing conditions will depend on machine size, mold design, material residence time, shot size, etc.

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