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WeConnectScience

LG Chem

PC 8010-10

Description

It is designed for compounding of PC alloy with high impact strength(low temp.) and excellent ESCR property.

Application

Compound

Key Features

Chemical Resistance, High Impact Resistance, Low Haze, Low Temp. Impact Resistance

Properties	Method	Unit	PC 8010-10
Physical			
Melt Flow Rate (300 °C /1.2 kg)	ASTM D1238	g/10min	7
Density	ASTM D792	kg/m³	1200
Mold Shrinkage	ASTM D955	㎜/㎜	0.005~0.007
Water Absorption @ 24 hrs, 23°C	ASTM D570	%	0.12
Water Absorption @ equilibrium, 50%RH, 23°C	ASTM D570	%	0.2
Optical			
Haze	ASTM D1003	%	0~2.0
Thermal			
Deflection Temperature Under Load (DTUL) @ 4 mm 66 psi (0.45 MPa), annealed	ASTM D648	℃	122
Deflection Temperature Under Load (DTUL) @ 4 mm 264 psi (1.8 MPa), annealed	ASTM D648	℃	108
Deflection Temperature Under Load (DTUL) @ 4 mm 264 psi (1.8 MPa), unannealed	ASTM D648	℃	120
Vicat Softening Point, 50°C /hr, 50N Load	ASTM D1525	℃	128
Coefficient of Linear Thermal Expansion, @ -40 to 82°C	ASTM D696	mm/mm/℃	70 x 10^-6
Mechanical			
Tensile Yield Strength	ASTM D638	MPa	56
Ultimate Tensile Strength	ASTM D638	MPa	66
Elongation at Yield	ASTM D638	%	6
Elongation at Break	ASTM D638	%	100
Notched Izod Impact @ 23 °C	ASTM D256	J/m	640
Unnotched Izod Impact @ 23 °C	ASTM D256		No break

Note

1. Typical properties; not to be constructed as specifications.
2. Tensile Test @ 23 °C; 50 mm/min.
3. 0.125 in; 10 mil notch (3.2 mm; 0.25 mm notch).

※ Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.
Values given should not be interpreted as specification and not be used for part or tool design.
All properties, except melt flow rate are measured on injection molded specimens and after 48 hours storage at 23℃, 50% relative humidity.