

HOPELEX PC-1070U

Polycarbonate

Lotte Chemical Corporation

Message:

PC-1070U has higher viscosity, impact strength, tensile & flexural strength, and elastic modulus, which can be used in sheet-extrusion and stringent demand such as and goggles etc. Hopelex PC-1070U have UV stabilized ingredients to prevent degradation of final PC products from lights.

General Information			
UL YellowCard	E85371-100144915		
Additive	UV Stabilizer		
Features	High Impact Resistance		
	High Stiffness		
	High Tensile Strength		
	High Viscosity		
Uses	Outdoor Applications		
	Sheet		
RoHS Compliance	RoHS Compliant		
Processing Method	Sheet Extrusion		
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)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
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	2350	MPa	ASTM D790
Flexural Strength ⁴ (Yield)	90.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	830	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	144	°C	
1.8 MPa, Unannealed	133	°C	
Vicat Softening Temperature	153	°C	ASTM D1525 ⁵
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.585		ASTM D542
Transmittance	89.0	%	ASTM D1003
Haze	< 0.80	%	ASTM D1003

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. 50 mm/min
3. 10 mm/min
4. 10 mm/min
5. Rate B (120°C/h), Loading 2 (50 N)

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