

HOPELEX PC-1070UR

Polycarbonate

Lotte Chemical Corporation

Message:

Hopelex PC-1070UR is a high viscosity, easy mold release and UV stabilized polycarbonate, which is suitable for outdoor general injection and extrusion applications.

Hopelex PC-1070UR is particularly designed for the complicated extrusion applications.

General Information	
Additive	UV Stabilizer
Features	Good Mold Release
	High Viscosity
Uses	Outdoor Applications
	Sheet
RoHS Compliance	RoHS Compliant
Processing Method	Extrusion
	Injection Molding

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)	9.0	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 Re grind	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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