

HOPELEX PC-1220U

Polycarbonate resin

General Information

Description

□ Hopelex PC-1220U is a low viscosity, clear polycarbonate, which is suitable for outdoor injection applications. Hopelex PC-1220U have UV stabilized ingredients to prevent degradation of final PC products from lights.

Applications

OUTDOOR AND LIGHT EXPOSED INJECTION PRODUCTS

Typical properties ¹				
	Test Method	Typical value	Unit	
hysical				
elt Flow Index, 300°C, 1.2kg	ASTM D1238	22	g/10min	
pecific Gravity	ASTM D792	1.20		
old Shrinkage	ASTM D955	0.5~0.7	%	
lechanical				
ensile Strength, yield, 50mm/min	ASTM D638	630	kgf/cm ²	
ensile Elongation, break, 50mm/min	ASTM D638	> 100	%	
lexural Strength, yield, 10mm/min	ASTM D790	920	kgf/cm ²	
lexural Modulus, 10mm/min	ASTM D790	24,000	kgf/cm ²	
COD Impact Strength, notched, 23 °C, 1/8"	ASTM D256	70	kg·cm/cm	
notched, 23 ℃, 1/4"	ASTM D256	-	kg·cm/cm	
hermal				
eat Distortion Temp. 4.6kgf/cm ²	ASTM D648	139	${\mathbb C}$	
18.6kgf/cm ²	ASTM D648	128	$^{\circ}$	
icat Softening Temp. Rate B/50	ASTM D1525	150	${\mathbb C}$	
ptical				
ight Transmittance	ASTM D1003	89	%	
aze	ASTM D1003	< 0.8	%	
efractive Index	ASTM D542	1.585		
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Notes	ISO 9001, 14001, /TS 16949

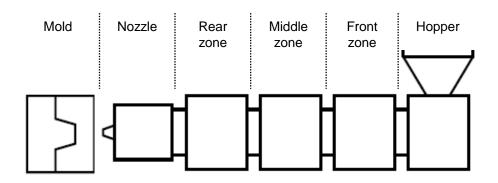
¹ Typical properties: these are not to be construed as specifications.



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Processing guides ¹				
		Typical value	Unit	
Drying	condition			
Drying temperature		120	°C	
Drying time		4	hr	
Maximum moisture content		0.02	%	
Injectio	n molding			
Melt temperature		290 ~ 310	$^{\circ}$	
Nozzle temperature		280 ~ 300	${\mathbb C}$	
	Rear zone	290 ~ 310	C	
Barrel	Middle zone	280 ~ 300	C	
	Front zone	270 ~ 290	${\mathbb C}$	
Hopper temperature		60 ~ 80	${\mathbb C}$	
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.