

Sunny® PC-PET EN100

Polycarbonate + PET

Guangdong Shunde Shunyan New Material Co., Ltd.

Message:

EP Polycarbonate-Polyethylene Terephthalate

General Information			
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.18	g/cm ³	ASTM D792
23°C	1.18	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 23°C	0.80 to 1.1	%	ASTM D955
23°C	0.80 to 1.1	%	ISO 294-4
Water Absorption			
Equilibrium, 23°C	0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
-- ²	55.0	MPa	ASTM D638
--	55.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	140	%	ASTM D638
Break	150	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span	1060	MPa	ASTM D790
50.0 mm Span	1100	MPa	ISO 178
Flexural Strength			
50.0 mm Span	77.0	MPa	ASTM D790
-- ⁴	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	540	J/m	ASTM D256
23°C	50	kJ/m ²	ISO 180/1A
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		

Injection	Nominal Value	Unit
Drying Temperature	105 to 110	°C
Drying Time	3.0 to 4.0	hr
Rear Temperature	260	°C
Middle Temperature	250	°C
Front Temperature	250	°C
Processing (Melt) Temp	250	°C
Mold Temperature	90.0	°C
Injection Rate	Moderate-Fast	

NOTE

- | | |
|----|------------|
| 1. | 23°C |
| 2. | 5.0 mm/min |
| 3. | 5.0 mm/min |
| 4. | 50 mm span |

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