

AVP™ ZLL12CP

Polycarbonate
SABIC Innovative Plastics

Message:

AVP™ ZLL12CP is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America. Applications of AVP™ ZLL12CP include electrical/electronic applications, appliances and automotive.

Characteristics include:

- Flame Rated
- Eco-Friendly/Green
- Good Toughness
- High Strength
- Rigid

General Information			
UL YellowCard	E121562-100305666		
Recycled Content	Yes		
Features	General Purpose		
	Good Flow		
	Good Toughness		
	High Rigidity		
	High Strength		
Uses	Appliance Components		
	Automotive Applications		
	Communication Applications		
	Electrical Parts		
Appearance	Black		
	Grey		
	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	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
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength (Yield)	58.6	MPa	ASTM D638

Tensile Elongation (Yield)	130	%	ASTM D638
Flexural Modulus	2340	MPa	ASTM D790
Flexural Strength (Yield)	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	129	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.65 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Drying Time, Maximum	16	hr	
Suggested Shot Size	40 to 60	%	
Rear Temperature	266 to 282	°C	
Middle Temperature	271 to 282	°C	
Front Temperature	277 to 293	°C	
Nozzle Temperature	271 to 293	°C	
Processing (Melt) Temp	288 to 293	°C	
Mold Temperature	82.2 to 98.9	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	

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