

# AVP™ ZLL12CU

Polycarbonate

SABIC Innovative Plastics

## Message:

AVP™ ZLL12CU is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America. Applications of AVP™ ZLL12CU include electrical/electronic applications, appliances and automotive.

Characteristics include:

Flame Rated

Eco-Friendly/Green

Good Toughness

Good UV Resistance

High Strength

General Information			
UL YellowCard	E121562-100305666		
Additive	UV Stabilizer		
Recycled Content	Yes		
Features	General Purpose Good Flow Good Toughness Good UV Resistance 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 <sup>3</sup>	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
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (23°C, 3.18 mm)	640	J/m	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (1.8 MPa, Unannealed)	129	°C	ASTM D648
<b>Flammability</b>	<b>Nominal Value</b>		<b>Test Method</b>
Flame Rating (1.65 mm)	V-2		UL 94
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
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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#### Recommended distributors for this material

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