

AVP™ TLL12CU

Polycarbonate
SABIC Innovative Plastics

Message:

AVP™ TLL12CU is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America. Applications of AVP™ TLL12CU include electrical/electronic applications, appliances and automotive.

Characteristics include:

- Eco-Friendly/Green
- Good Toughness
- Good UV Resistance
- High Strength
- Rigid

General Information			
UL YellowCard	E121562-100305662		
Additive	UV Stabilizer		
Recycled Content	Yes		
Features	Good Flow		
	Good Toughness		
	Good UV Resistance		
	High Rigidity		
	High Strength		
Uses	Appliance Components		
	Automotive Applications		
	Communication Applications		
	Electrical Parts		
Appearance	Clear/Transparent		
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)	12	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	2410	MPa	ASTM D638
Tensile Strength (Yield)	58.6	MPa	ASTM D638
Tensile Elongation (Yield)	120	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790

Flexural Strength (Yield)	89.6	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
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Drying Time, Maximum	16	hr	
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 316	°C	
Mold Temperature	76.7 to 98.9	°C	
Back Pressure	0.345	MPa	
Screw Speed	40 to 70	rpm	

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