

# AVP™ RLL10CP

Polycarbonate  
SABIC Innovative Plastics

Message:

AVP™RLL10CP is a polycarbonate (PC) product that contains a 10% glass fiber reinforced material. It can be processed by injection molding and is available in North America. AVP™RLL10CP applications include electrical/electronic applications, electrical appliances and the automotive industry. Features include:

- flame retardant/rated flame
- environmental protection/green
- high strength
- Hard
- Good toughness

General Information			
UL YellowCard	E121562-100305656		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Recycled Content	Yes		
Features	Rigidity, high		
	High strength		
	Good toughness		
Uses	Electrical components		
	Home appliance components		
	Application in Automobile Field		
	Communication application		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.50	%	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	3450	MPa	ASTM D638
Tensile Strength <sup>1</sup> (Yield, 3.18 mm)	56.5	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break, 3.18 mm)	15	%	ASTM D638
Flexural Modulus <sup>3</sup> (3.18 mm)	3450	MPa	ASTM D790
Flexural Strength <sup>4</sup> (3.18 mm)	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	138	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm, BLK)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0	hr	
Drying Time, Maximum	16	hr	
Suggested Shot Size	40 - 60	%	
Rear Temperature	282 - 293	°C	
Middle Temperature	288 - 316	°C	
Front Temperature	288 - 316	°C	
Nozzle Temperature	288 - 316	°C	
Processing (Melt) Temp	274 - 293	°C	
Mold Temperature	71.1 - 87.8	°C	
Back Pressure	0.345 - 1.38	MPa	
Screw Speed	40 - 70	rpm	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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#### Recommended distributors for this material

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