

# AVP™ RLL20CP

Polycarbonate  
SABIC Innovative Plastics

Message:

AVP™ RLL20CP is a Polycarbonate (PC) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America. Applications of AVP™ RLL20CP include electrical/electronic applications, appliances and automotive. Characteristics include:  
Eco-Friendly/Green  
Good Toughness  
High Strength  
Rigid

General Information			
UL YellowCard	E121562-100305656		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Recycled Content	Yes		
Features	Good Toughness		
	High Rigidity		
	High Strength		
Uses	Appliance Components		
	Automotive Applications		
	Communication Applications		
	Electrical Parts		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.10 to 0.30	%	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	5790	MPa	ASTM D638
Tensile Strength (Yield)	110	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus	5380	MPa	ASTM D790
Flexural Strength (Yield)	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	143	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Drying Time, Maximum	16	hr	
Rear Temperature	282 to 304	°C	
Middle Temperature	293 to 316	°C	
Front Temperature	304 to 338	°C	
Nozzle Temperature	304 to 327	°C	
Processing (Melt) Temp	310 to 338	°C	
Mold Temperature	82.2 to 116	°C	
Back Pressure	0.345 to 1.38	MPa	
Screw Speed	50 to 75	rpm	

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#### Recommended distributors for this material

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