

AVP™ GLV80CP

Polycarbonate + PBT

SABIC Innovative Plastics

Message:

AVP™ GLV80CP is a Polycarbonate + PBT (PC+PBT) product. It can be processed by injection molding and is available in North America. Applications of AVP™ GLV80CP include automotive, electrical/electronic applications and household applications.

Characteristics include:

Flame Rated

Eco-Friendly/Green

Chemical Resistant

Good Aesthetics

Impact Resistant

General Information			
UL YellowCard	E121562-100305643		
Recycled Content	Yes		
Features	General Purpose		
	Good Chemical Resistance		
	Good Flow		
	Good Impact Resistance		
	Good Surface Finish		
Uses	Automotive Applications		
	Communication Applications		
	Lawn and Garden Equipment		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80 to 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ASTM D638
Tensile Strength ¹ (Yield, 3.18 mm)	46.9	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	15	%	
Break, 3.18 mm ²	25	%	
Flexural Modulus ³ (3.18 mm)	2000	MPa	ASTM D790

Flexural Strength ⁴ (3.18 mm)	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	82.2	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, BK)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Shot Size	50 to 80	%	
Rear Temperature	238 to 254	°C	
Middle Temperature	243 to 260	°C	
Front Temperature	246 to 263	°C	
Nozzle Temperature	243 to 260	°C	
Processing (Melt) Temp	249 to 266	°C	
Mold Temperature	37.8 to 82.2	°C	
Back Pressure	0.172 to 0.345	MPa	
Screw Speed	25 to 50	rpm	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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