

AVP™ KLL10FR

Polycarbonate
SABIC Innovative Plastics

Message:

AVP™ KLL10FR is a Polycarbonate (PC) product filled with 10% glass fiber. It can be processed by injection molding and is available in North America. Applications of AVP™ KLL10FR include electrical/electronic applications, appliances and automotive. Characteristics include:
Flame Rated
Eco-Friendly/Green
Flame Retardant
Good Toughness
High Strength

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Recycled Content	Yes		
Features	Flame Retardant		
	Good Toughness		
	High Rigidity		
	High Strength		
Uses	Appliance Components		
	Automotive Applications		
	Communication Applications		
	Electrical Parts		
UL File Number	E134027		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength ¹ (Yield, 3.18 mm)	62.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.18 mm)	15	%	ASTM D638
Flexural Modulus ³ (3.18 mm, 50.8 mm Span)	3170	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.18 mm, 50.8 mm Span)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	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			UL 94
1.10 mm	V-0		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	6.0	hr	
Drying Time, Maximum	16	hr	
Rear Temperature	282 to 293	°C	
Middle Temperature	288 to 316	°C	
Front Temperature	288 to 316	°C	
Nozzle Temperature	288 to 316	°C	
Processing (Melt) Temp	304 to 332	°C	
Mold Temperature	82.2 to 116	°C	
Back Pressure	0.345 to 1.38	MPa	
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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