

AVP™ GCC30CU

Acrylonitrile Butadiene Styrene
SABIC Innovative Plastics



Technical Data

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet		
UL Yellow Card ²	• E121562-100305636		
Search for UL Yellow Card	• SABIC Innovative Plastics • AVP™		
Availability	• North America		
Additive	• UV Stabilizer		
Recycled Content	• Yes		
Features	• Good Flow • Good Impact Resistance	• Good UV Resistance • Medium Gloss	
Uses	• Appliance Components	• Automotive Applications	• Communication Applications
Appearance	• Black	• Grey	• White
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.05 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.90 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2280 MPa	ASTM D638
Tensile Strength ⁴ (Yield, 3.18 mm)	42.1 MPa	ASTM D638
Tensile Elongation (Yield)	18 %	ASTM D638
Flexural Modulus ⁵ (3.18 mm)	2410 MPa	ASTM D790
Flexural Strength ⁵ (3.18 mm)	72.4 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	160 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	104	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.35 mm	87.8 °C	ASTM D648
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.50 mm, ALL)	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	87.8 °C
Drying Time	2.0 hr
Drying Time, Maximum	3.0 hr
Processing (Melt) Temp	218 to 260 °C
Mold Temperature	48.9 to 65.6 °C
Back Pressure	0.345 to 0.689 MPa
Screw Speed	30 to 60 rpm

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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 5.1 mm/min

⁵ 1.3 mm/min