

Technical Data Sheet

# Accutech ABS831G10L

Acrylonitrile Butadiene Styrene  
LyondellBasell Industries  
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Forms	• Pellets		
Physical			
Density / Specific Gravity	Nominal Value (English)	Nominal Value (SI)	Test Method
	1.18	1.18 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 Kg)	1.5 g/10 min	1.5 g/10 min	ASTM D1238
Mechanical			
	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	435000 psi	3000 MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	8120 psi	56.0 MPa	
Break	8120 psi	56.0 MPa	
Tensile Elongation			ASTM D638
Yield	3.0 %	3.0 %	
Break	5.0 %	5.0 %	
Flexural Modulus	537000 psi	3700 MPa	ASTM D790
Flexural Strength	10900 psi	75.0 MPa	ASTM D790
Impact			
	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.7 ft·lb/in	91 J/m	ASTM D256
Hardness			
	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-scale)	105	105	ASTM D785
Thermal			
	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	208 °F	98.0 °C	
264 Psi (1.8 Mpa), Unannealed	190 °F	88.0 °C	

## Notes

These are typical property values not to be construed as specification limits.