

Accucomp ABS809L

Acrylonitrile Butadiene Styrene

LyondellBasell Industries

Engineering Plastics

General			
Forms	• Pellets		
Processing Method	• Extrusion		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.03	1.03 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 Kg)	0.70 g/10 min	0.70 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	247000 psi	1700 MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	6530 psi	45.0 MPa	
Break	4790 psi	33.0 MPa	
Tensile Elongation			ASTM D638
Yield	4.0 %	4.0 %	
Break	30 %	30 %	
Flexural Modulus	319000 psi	2200 MPa	ASTM D790
Flexural Strength	9430 psi	65.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-40°F (-40°C), 0.125 In (3.18 Mm)	3.0 ft·lb/in	160 J/m	
-22°F (-30°C), 0.125 In (3.18 Mm)	4.9 ft·lb/in	260 J/m	
-4°F (-20°C), 0.125 In (3.18 Mm)	5.6 ft·lb/in	300 J/m	
73°F (23°C), 0.125 In (3.18 Mm)	9.7 ft·lb/in	520 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-scale)	100	100	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	194 °F	90.0 °C	
264 Psi (1.8 Mpa), Unannealed	167 °F	75.0 °C	

Notes

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

