

Technical Data Sheet

Accucomp ABS846HL

Acrylonitrile Butadiene Styrene
 LyondellBasell Industries
 Engineering Plastics

General		
Features	• High Flow	• Medium Impact Resistance
Forms	• Pellets	

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)	5.0 g/10 min	5.0 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	6090 psi	42.0 MPa	
Break	4350 psi	30.0 MPa	
Tensile Elongation			ASTM D638
Yield	3.0 %	3.0 %	
Break	40 %	40 %	
Flexural Modulus	319000 psi	2200 MPa	ASTM D790
Flexural Strength	8990 psi	62.0 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	6.4 ft·lb/in	340 J/m	ASTM D256

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.