Technical Data Sheet

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/cm³	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.