

## Technical Data Sheet

**Polyflam ABS860V0UVLB13836 SAND**

Acrylonitrile Butadiene Styrene

**Product Description**

Polyflam ABS860V0UVLB13836 SAND is a Acrylonitrile Butadiene Styrene material.

Forms Pellets  
Additive Flame Retardant

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (200 °C/5.0 kg)	5.0	g/10 min	ASTM D1238
Density - Specific Gravity	1.2	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Elongation at Yield	4	%	ASTM D638
Tensile Strength at Yield	41	MPa	ASTM D638
Tensile Strength at Break	27	MPa	ASTM D638
Flexural Modulus	2400	MPa	ASTM D790
Tensile Elongation at Break	25	%	ASTM D638
Tensile Modulus	1700	MPa	ASTM D638
Flexural Strength	57	MPa	ASTM D790
<b>Impact</b>			
Notched Izod Impact	360	J/m	ASTM D256
<b>Hardness</b>			
Rockwell Hardness, (R-Scale)	92		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi)	66	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	77	°C	ASTM D648
<b>UL Information</b>			
Flame Rating			
(1.6 mm)	V-0		UL 94
(2.5 mm)	5VA		UL 94
UL File Number	E51193		
<b>Injection Parameters</b>			
	Nominal Value	Units	
Drying Time, (Desiccant Dryer)	4.0	hr	
Drying Temperature, (Desiccant Dryer)	82	°C	
Suggested Max Moisture	0.02	%	
Screw Speed	50 to 150	rpm	
Processing (Melt) Temp	199 to 227	°C	
Front Temperature	193 to 227	°C	
Middle Temperature	193 to 227	°C	
Rear Temperature	193 to 227	°C	
Injection Rate	Moderate		
Back Pressure	0.483 to 1.38	MPa	
Mold Temperature	41 to 80	°C	
Cushion	6.35 to 12.7	mm	