

## Technical Data Sheet

### Centrex ASA 825A 90234 UVWHI



Acrylonitrile Styrene Acrylate

#### Product Description

Centrex ASA 825A 90234 UVWHI is a Acrylonitrile Styrene Acrylate material and is typically used in Extrusion, Sheet Extrusion, Thermoforming applications. Features include: Good Melt Strength, Good Weather Resistance, High Gloss, High Impact Resistance, and UV Resistant.

<b>Processing Method</b>	Extrusion; Sheet Extrusion
<b>Attribute</b>	Good Melt Strength; Good Weather Resistance; High Gloss; High Impact Resistance; UV Resistant
<b>Forms</b>	Pellets
<b>Application</b>	Marine Applications; Outdoor Applications; Sheet; Spas; Water Sports Equipment

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate			
(230 °C/3.8 kg)	3.0	g/10 min	ASTM D1238
(220 °C/10.0 kg)	12	g/10 min	ASTM D1238
Density - Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Elongation at Yield	2.7	%	ASTM D638
Tensile Strength at Yield, (5.1 mm/min)	44.1	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	2100	MPa	ASTM D790
Tensile Modulus, (5.1 mm/min)	2280	MPa	ASTM D638
Flexural Strength, (1.3 mm/min)	48.3	MPa	ASTM D790
<b>Impact</b>			
Notched Izod Impact			
(23 °C, 3.18 mm)	210	J/m	ASTM D256
(-30 °C, 3.18 mm)	91	J/m	ASTM D256
(-18 °C, 3.18 mm)	110	J/m	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	77.7	°C	ASTM D648
Coefficient of Linear Thermal Expansion (CLTE), Flow, (-40 to 40 °C)	8.1E-5	cm/cm/°C	ASTM D696
Coefficient of Linear Thermal Expansion (CLTE), Perpendicular, (-40 to 4 °C)	1.1E-4	cm/cm/°C	ASTM D696

<b>RTI Elec</b>		
(1.5 mm)	50.0 °C	UL 746B
(3.0 mm)	50.0 °C	UL 746B
(0.75 mm)	50.0 °C	UL 746B
<b>RTI Imp</b>		
(1.5 mm)	50.0 °C	UL 746B
(3.0 mm)	50.0 °C	UL 746B
(0.75 mm)	50.0 °C	UL 746B
<b>RTI Str</b>		
(1.5 mm)	50.0 °C	UL 746B
(3.0 mm)	50.0 °C	UL 746B
(0.75 mm)	50.0 °C	UL 746B
<b>Flammable</b>		
Hot-wire Ignition (HWI)		UL 746A
<b>Optical</b>		
Gloss, (60°, Untextured, High Gloss Surface)	90 to 100	ASTM D2457
<b>UL Information</b>		
<b>Flame Rating</b>		
(1.5 mm)	HB	UL 94
(3.0 mm)	HB	UL 94
(0.75 mm)	HB	UL 94
UL File Number	E51193	
Outdoor Suitability		UL 746C

<b>Extrusion Parameters</b>	<b>Nominal Value</b>	<b>Units</b>
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	<0.020	%
Suggested Max Re grind	40	%
Drying Temperature	82 to 93	°C